

Acc. 12-053
Killip, Field Notes #14000-17290
1926-27

1

1105-1966

1930 Oct 12
15646-12290

EXPLORATION IN COLOMBIA EASTERN CORDILLERA

Collected under the auspices of the New York Botanical Garden,
Gray Herbarium of Harvard University, United States
National Museum, and the Arnold Arboretum.



I

herb	H.	red	r.
tree	T.	orange	o.
shrub	S.	yellow	y.
fern	F.	blue	b.
flowers	F.	green	g.
fruit	Fr.	violet	v.
		purple	pur.
		pink	pi.
		brown	b.
		white	w.

plenty n
photographed P.

Smithsonian Inst.
Washington, D.C.

14036	# <i>Tribulus cistoides</i> maximum	H. prostrate	F. Y.
14037	(comp.)	H. S. low 1-2'	F. head w.
14038	<i>Cassia</i>	H. creeping	F.Y.
14039	Cat <i>Kallstroemeria</i>	S. 3-6'	F.W.
14040	<i>Cassia grandis</i>	H. semi-pros.	F.Y.
14041	<i>Tricias</i>	H. coarse very	F.Y.
14042	<i>Abutilon</i>	H. viscosa	F. salmon
14043	<i>Poiva lappacea</i>	H. spreading	F. light b.
14044	<i>Bulnesia arborea</i>	T. 20-30'	<hr/>
14045	<i>Commelinia elata</i>	H.	F. light b. 1cm. wide
14046	<i>Ephorbia linta</i>	H.	F. 4-8.
14047	<i>Mimosa</i>	S. semi-pros.	
14048	<i>Panicum barbinerve</i>	H.	
14049	<i>Coussapoa</i>	T. 50-80'	
14050	<i>Cissus sicyoides</i>	vine, hanging.	F.W.
14050			
14051	<i>Panicum</i>	H.	Fr. dark
14052	<i>Hibiscus</i>	S. 5-15'	F. petals bright
14053	<i>Tabernomindana</i>	T. 20'	F.W.
14054	<i>Rivina humilis</i>	H.	F.W.
14055	<i>Attenuanthus</i>	H.	F.W.
14056	(labiate)	H. woody, low.	F.W.
14057	Stenostea <i>sauvagesia erecta</i>	H.	F.W.
14058	<i>Heliotropium Fariflorum</i>	H. coarse	F.W.
14059	<i>Lidiosperma axill</i>	H. 1½-2'	F. pinkish
14060	<i>Solanum nigrum</i>	H. low	F. cor. w.
14061	<i>Manettia</i>	S. 1-3'	F.W.
14062	<i>Sterculia</i>	H.	F. rich p.
14063	S <i>Spennwoce</i>	H. 1½-2'	F.W.
14064	<i>Lycopersicum esculentum</i>	H.	F. cor. w. - an.
14065	<i>Amaranthus</i>	H.	F. straw col.
14066	<i>Commelinia</i>	H. pros.	F. light b.
14067	<i>Stylosanthes</i>	T. 12-15'	F.Y.
14068	<i>Calliantha</i>	S. semi pros.	F. stam. pale t.
14069	<i>Mimosa</i> see	2-3' l.	
14070	<i>Agenia</i>	F.Y. H. slender F.Y.	

Nov. 2 roadside clay base - La Popa

woods, etc.

La Popa

14071	<i>Cassia ligustrina</i>	T. 12-15'	
14072	(Rutaceae) "tortum cimaron"	T. 10-15'	Fr. aroid ± 9" l.
14073	<i>Euphorbia brasiliensis</i>	H.	Fr. green.
14074	<i>Panicum</i>	H.	F.W.
14075	<i>Acalypha</i>	A.	
14076		H. 2-7'	
14077	<i>Petiveria alliacea</i>	H.	F. w. greenish
14078	<i>Mimosa</i>	T. 10-15'	F. cream w.
14079	(Bignoniaceae)	vine W.	
14080	<i>Solanum</i>	H.	F. pur.
14081	<i>Euphorbia lasiocarpa</i>	H.	F. cor. w.
14082	Lasiacis Lasiacis	vine	F. sta. y.
14083		S. 8-12'	F.W.
14084	<i>Mimosa mangunido</i>	T. 8-10' S. 4-6'	F. stamineo p.
14085	<i>Bauhinia</i>	S. 10-15'	F. w.
14086		vine W.	F. y.
14087	(Bignoniaceae)	H.	F. y.
14088	<i>Cracca</i>	vine W.	F. p. to pur
14089	<i>Cassia</i>	T. 10-15'	F. y.
14090	Mimosa <i>Acacia</i>	T. 8-15'	F. y.
14091	Leucobiumia	H.	F. pubescens
14092	<i>Coccolobis ivifera</i>	S. 5-10'	F.W.
14093	<i>Jacquinia</i>	S. low.	F. w.
14094	<i>Riviglossa</i>	S. 5-15'	F. y. pet. w.
14095	Suriana	S. or small T.	F. y. sep. y.
14096	<i>Cenchrus</i>	S.	F. y.
14097	<i>Eragrostis</i>	H.	
14098	Le <i>Fimbristylis spathacea</i>	H.	proliferous grass.
14099	<i>Fimbristylis castanea</i>	H.	
14100	<i>Cracca cuvera</i>	H. 1-2'	F. pur.
14101	<i>Coccus</i>	T. 20-70' leaves 10-20'	
14102	<i>Cyperus multiscapus</i>	H.	
14103	<i>Eriogrostis</i>	H.	
14104	<i>Cucumis</i>	H.	
14105	<i>Cyperus</i>	H.	F. y. Fr. obvoid

Nov. 2 Woods, etc. La Popa
halves of fruit used for carrying water

3000W

14106	Capparis Crotom	S. low, branching	F.W.
14107	Euphorbia	H. branching at base	F. greenish w.
14108	Catopsis	H. coarse	F. spals w.
14109	Cassia tormentea	S. 4-6'	F. pet. w. deep. dist.
14110	Phaseolus	vine, creeping in sand	F. Y.
14111	Burseria	S. 5-20'	F. purp.
14112	Caesalpinea	S. low	F. cor. o. l. anth. pur.
14113	Ipomea pes-caprae	repent vine	F. pi. bl
14114	Alternanthera	H. 2-4'	F.W.
14115	Weinmannia	T. 10-12'	
14116		woody vine	grass ^{inflor.}
14117	Buxus	T. 15-20'	Fr. only
14118	Tillandsia "carilla" "pua"	E.H.	
14119	Eucliumis	H.	
14120	Iamocita "enredadera"	vine	F. scarlet
14121	grass	H. dense clumps.	
14122	Sporobolus	H.	
14123	Cracca	vine W	F.p.
14124	Cardiospermum helicanthum	vine W	F.W.
14125	Mimosa mangemensis	S. 2-3' erect	F. sta. p-w.
14126	Lasiacis	vine	Faq.
14127		H. succulent	H.
14128	Sida "escoha" "sida barbara"	H.	F. pale y
14129	Ilex	S. 4-10'	Fr. w.
14130	Pectis	H. 2-3'	twol. flwr.
14131	Leucaena	T. 15-20'	Fl. w.
14132	Ipomea	vine	
14133	(fly)	H. 2-2½'	F. purp. b.
14134	<u>Leskeia</u>	H. succulent	F. pink
14135	Albizia Acacia	H. creeping	
14136	Digitalis	T. 12"	
14137	Evolvulus morsulariaefolia	H. no.	F. sky b.
14138	Ipomea	vine	F. w.
14139	Cassia Ascchy nowmene	H. unbranched, 2-3'	F. y.
14140	Acacia	T. 10-15'	

3
Nov. 2 sandy coastal strip Boca Grande
Nov. 3 sandy beach Hierabonita I.
4

coastal thicket

edge of mangrove swamp
coastal thicket

14141	<i>Muniosa</i>	<i>H.</i> suffrutescent vine	F.p.
14142	<i>Sicyos</i>	vine	
14143	<i>Phaseolus</i>	<i>H.</i> succulent	F.p.
14144		<i>S.</i>	
14145	<i>Hibiscus</i>	<i>H.</i>	
14146	<i>Spigelia</i>	agee - sub. salt water <i>H.</i> often woody <i>H.</i> below	F. sct. p. F. w.
14147		<i>H.</i> 2-4'	
14148	<i>Justicia carthaginensis</i>	<i>S.</i> 8'	F.b.
14149	comp.	<i>H.</i>	F.W.
14150	<i>Securidaca</i>	<i>T.</i> 15'	
14151	<i>Euphorbia hirta</i>	<i>S.</i> 2-6'	F. greenish w.
14152		<i>T.</i> 15-30' spreading cane	
14153	Ilex	<i>H.</i>	Fr. w.
14154	" Maayanillo " <i>Hippocratea</i>	<i>Succulent</i> vine	
14155	<i>Lida</i>	<i>Fy</i>	
14156	<i>Portulaca pilosa</i>	<i>Fg</i>	
14157	" <i>Oleracea</i> "	"vendo larga"	
14158	<i>Cyperus laevigatus</i>	<i>H.</i> , in tufts	
14159	<i>Sterculia</i>	suffrutescent bush	Frichpi
14160	<i>Crotalaria</i>	<i>H.</i> 2-3'	
14161	" <i>Campania amarilla</i> " " <i>belenito</i> "	low s. ± 2'	
14162	<i>Manordea charantia</i>	vine	
14163	<i>Lycium</i>	<i>S.</i> semi-scand.	
14164	<i>Passiflora suberosa</i>	vine I woody	
14165	<i>Lycium</i>	<i>S.</i> semi-scand.	
14166	<i>Zornellaria</i>	<i>S.</i> ± 8' branches often	
14167	<i>Hamelia patens</i>	becan. scand.	
14168	<i>Passiflora suberosa</i>	<i>S.</i> ± 5'	
14169	<i>Melanthera</i>	vine	
14170	<i>Tragia</i>	<i>H.</i> coarse	
14171	<i>Dioscorea</i>	vine, slender	
14172	<i>Borreria</i>	vine I W,	
14173	A (leg.)	<i>H.</i>	
14174	<i>Acalypha</i>	vine W <i>S.</i> or H. ± 3'	F. gr.
14175	<i>Anoda</i>	<i>H.</i> 1-2'	F. b.

	Nov. 4	coastal thicket	Tierraburro	s.	h.
		edge of mangrove swamps		2	
		coastal thicket		1	
		beach - submerged		4	
		coastal thicket		11	
				6	
				4	
				4	
				4	
				4	
				4	
				4	
				4	
				4	
				4	
				4	
				4	
				4	
				2	
#	5	City wall, Cartagena		-	2

Mar 56 tickets

R.R. tracks east
of Turbaco

14176	<i>Clatierium cartaginense</i>	vine, H.	F.Y.
14177	<i>Waltheria</i>	H.	F.Y.
14178	<i>Cordia sebestena</i>	T. 10-15'	F.W.
14179	<i>Panicum tricanthum</i>	H.	
14180	<i>Boronia</i>	H. semi pros.	F.W.
14181	<i>Acalypha</i>	H. woody at base	F.pale.
14182	<i>Graecia</i> "arbol de nieve"	H. 22'	F.W.
14183	<i>Rivina humilis</i>	H. dense clumps root. at nodes	
14184	<i>Paspalum</i>	H.	
14185	<i>Pectes</i> Ecol.	H.	F.lav.
14186	<i>Elytraria</i>	H.	F.r.
14187	<i>Hibiscus</i>	S.	F.Y.
14188	<i>Cassia</i>	H. erect, simple	
14189	<i>Cyperus</i>	H.	
14190	<i>Syntherisma</i>	H.	
14191	<i>Rauwolfia</i>	S. 15'	Fr.r.
14192	<i>Celtis</i>	T. 15-20'	
14193	<i>Piper nudicaule</i>	S. 4'	Species w.
14194	<i>Piper occidentalis</i>	S. 6'	Species us.
14195	<i>Cassia</i>	H.	F.Y.
14196	<i>Valerianodes</i>	H. 2-3'	For. deep per. pallid at center
14197	<i>Wissadula</i>	H. erect, branched	F.gr.w.
14198	"madrigala"	S. 10-12'	F. cor. w. ant. rh.
14199	<i>Adenocalymna bejico clavulata</i>	woody vine	F. w. cor. lobliw.
14200	<i>Salbergia</i>	S. 16"	F. pub. turnip-surfleath
14201	<i>Cardiospermum</i> <i>Sergania</i>	woody vine	F.W.
14202	<i>Mimosa</i>	H. subercent 2-2½'	
14203	<i>Stipa</i>	H.	
14204	<i>Cassia</i>	H.	F.Y.
14205	<i>Soliches labbei</i> arroz cocoa	vine w.	F.W.
14206	<i>Calliandra</i>	T. 10-12'	F.p.
14207	<i>Gouania tormentosa</i>	vine w.	F.W.
14208	<i>Opuntia</i>	± 1' diam.	
14209	<i>Canavalia</i>	S. 8-12'	F.Y.
14210	<i>Sergania</i>	woody vine	F.W.

Mar. 6 thickets along R.R. east of Turbaco

edge of thicket

14211	Acacia	S. ± 6'	
14212	Ruellia	H. 1½-2½'	F. lar. p.
14213	Abutilon	H. 2-2½'	F. y.
14214	Panicum "ceboleta"	H. 3-5'	
14215	Catesetum "setobletta"	E.H.	
14216	Alocine volvulus		
14217			
14218	Bauhinia	vine H.	
14219	Heliotropium indicum	S. 12-15'	F. pet. w. pup. spotted within
14220		H. 1½-2'	F. pale-p.b.
14221	Euphorbia	T. 12-15' branches pendulous semi-succulent	F. w.
14222	Tillandsia	H. 1½-2'	
14223	Securidaca	C.H.	
14224	Dolancera	H. 3-4'	F. y.
14225	Croton	S. sub.-scru.	F. cor. w.
14226	(leg.)	H. 3½-4' woody at base	F. w.
14227	Calliandra	S. 10-15'	F. note
14228	Ipomoea "campanita"	S. 3-6'	F. sta. w.
14229	Cassia occidentalis "bichofango"	vine	F. p. dist.
14230	Ipomoea	H. 2'	F. Y.
14231	Calliandra "beravero"	vine	F. cor. p. prox prox. paler dist.
14232	Ipomoea meyeri	S. 4-10'	F. faint. w.
14233	Indigofera "áñil"	vine	F. cor. wp prox. pwr. dist.
14234	Talinum "verdolaga"	H. 2-3'	F.p.
14235	Bauhinia "bejuco cadena"	H. succulent	F. light p.
14236	Sorthantus "cagapajarito"	(T.) 12-20'	F.w.
14237	Mimosa pudica "serapeputa"	S. paniculata	
14238	Alternanthera "mano de dios"	H. semi-pro	F.p.
14239	Mimosa "beravero"	spreading	F.W.
14240	Solanum "ojas de luna"	S. 8-12'	F. sta. w.
14241	tt Tuffa "ayjama"	T. 9-12'	F. cor. vio. sta.y.
14242	Securidaca? "botadesoro"	S. 7-10'	F.
14243	Cecropia "guarumo"	vine	F.y.
14244	Ipomoea "bulto" lila	H. 2-3'	F.Y.
14245	Psychotria (snake-leaf)	T. 10-30' auto intr. trunk climbing on tops vine w. of trees	F. rich p.
		S. 7'	

edge of thicket

Nov. 7 R.R. tracks west of Turbaco

Torreilla.

clearing
edge of wood

east of Turbaco

clearing
woods

dense woods

14246	(orelid)	E.H.	
14247	<i>Cardiospermum</i>	vine	F.W.
14248	<i>Sergania</i>	H.	F.W. greenish
14249	<i>Polygonia</i>	H. up to 7'	F. rays. y
14250	<i>Melbornia</i>	H. 1½-2½'	F.p.
14251	(rubiceae)	S. 8-10'	Fr. pure w.
14252	<i>Barachia</i>	H. semi-woody 4-5'	F. cor. w. Fr. r.
14253	<i>Gonovia</i>	vine	Figr. w.
14254	<u><i>Carica papaya</i></u>	T. 9-20'	F.W.
14255		T. 20-50'	F. staminate deep-pu
14256	<i>Bignonia</i>	"bezico de agua"	F. fr. strongly de
14257	<i>Erythrina</i>	"bezico" "petate"	F. rich lav. seeds.
14258	(euphor.)	H. slender	F. gr.
14259	<i>Bignonia</i>	H. much branched	
14260	<i>Cayapania</i>	vine, w.	F. cal. g.
14261	<i>Tillandsia</i>	vine, h.	F. cor. g.
14262	<i>Psychotria</i>	E.H.	Fr. r.
14263	<i>Palaeoura</i>	S. 7-8'	F.W.
14264	<i>Sergania</i>	T. 8-14' 20-30'	F.y.
14265		vine, w.	
14266	<i>Acalypha</i>	vine, w.	
14267	<i>Calliandra</i>	H. coarse	
14268	<i>Piper</i>	S. 4-10'	
14269	<i>Acalypha</i>	S. 6-9'	
14270	<i>Aristolochia</i>	S. 3-5'	
14271	<i>Ipornea</i>	vine, h. ^{lithocarpus}	F. yellow g.
14272	<i>Synedodon</i>	vine, h.	F. cor. pale p.
14273	<i>Thievetia</i>	"bezico corriente"	F. cor. green g.
14274	<i>Cassia</i>	vine, h.	F.y.
14275	moss	S. 4-5'	F.y.
14276	<i>Ricciaea</i>	Vine	
14277	<i>Ficus</i>	vine, woody ?	
14278	<i>Chenopodium ambrosioides</i>	H.	F.g.
14279	<i>Argemone mexicana</i>	H. 6"-2"	F.Y.
14280	<i>Scoparia dulcis</i>	H. 1-1½'	F. light b

edge of woods

roadside

roadsides thickets
edge of woods

rose, 12-ribbed

Nov. 8 street

Turbaco

- 14316 *Bactris* "lata"
 14317 (*cucurb.*)
 14318 *Ipomoea digitata*
 14319 *Cassia grandiflora*
 14320 — "salsajuega"
 14321 *Bradbeeria*
 14322 *camp.* "adonisifera"
 14323 *Funastrem*
 14324 *Sesuvia*
 14325 *Meliaceae*
 14326 *Bombax* "Banga"
 14327 (*euphorb.*)
 14328 *Operculina*
 14329 *Passiflora quadrangularis*
 14330 palm "matamba"
 14331 *Cardiospermum* "hepaticum"
 14332 *Acalypha* "vara de aguado"
 14333 *Tabernaemontana* "solita"
 14334 *Mimosa*
 14335 "agolonillo"
 14336 *Metistelina* "mataviri"
 14337 *Syrax* "platiao" *cedro*
 14338 *Calliandra* "tiraco"
 14339 *Hylocereus* "cadon"
 14340 *Ipomoea* "campana lila"
 14341 *Acalypha*
 14342 *Alternanthera* "belita"
 14343 *Calliandra*
 14344 *Talinum periculatum*
 14345 "campano" T. 70-100'
 14346 *Zeuxys* "zinganosa colorada" H.
 14347 *Mirabilis jalapa*
 14348 "cedro"
 14349 "manon"
 14350 *Pithecellobium*
- 14316 *Palm* 4-7'
 vine
 vine
 slender, diffusely spreading
 slender, spreading
 stem erect, with numerous divaricating branches
 vine, herbaceous
 H.
 vine, herbaceous
 U. woody
 H. 4-8' erect, few-branched
 F. w.
 T. 40'
 S. 12-15'
 V. herbaceous
 V. herb.
 P. ± 4'
 V. l.
 S. 3-5'
 S. 8-12'
 H. 3' few-branched
 T. 40'
 milky sap
 V. herb. twining
 low, much branched
 S. 4-6'. leaves silvery
 leprose beneath
 F. sta. rich p.
 sharply 5-angled
 cor. greenish
 F. corona g.
 cor. w. prox. deep
 pink dist.
 infl. g.
 F. w.
 sta. w.
 cor. vi.
 antr. g.
 sta. or. r.
 T. 50-70-100'
 H.
 T. 30-40'
 T. 40-60'
 epi. on 349
 F. F.
- Mar. 8 roadside thicket along fence
 thicket
 Mar. 9 roadside thickets Turbaco J-2,3
 between Tur. and
 hacienda de Colocito
 roadside
 thicket
 roadside
 thicket
 roadside
 thicket
 roadside
 thicket
 roadside
 Colocito
 P. d-6
 P. e, 2.
 P. e3
 P. e, 4, 5

14351

spicapote T. 30-40'

moss

*Pilea microphylla**Hedychieum* "heliotrope"*Lorsteria**Panicum trichoides* "paga con ego"*Lycopodium**Microteg debilis*

moss

moss

*Adiantum**Heliconia**Acalypha**Palechampia scandens*

"bilao camarrón" H. 3-4'

"bara de acaldo"

*Paspalum**Calliandra**Metastelma**Prestonia**Asclepias curassavica* "galla"*Mimosa**Tournefortia**Paulinia**Anona*

—

*Boerhaavia**Indigofera**Bignonia**Acacia*

—

*Crotalaria**Southernthus**Acalypha*

14352

moss

*Pilea microphylla**Hedychieum* "heliotrope"*Lorsteria**Panicum trichoides* "paga con ego"*Lycopodium**Microteg debilis*

moss

moss

*Adiantum**Heliconia**Acalypha**Palechampia scandens*

"bilao camarrón" H. 3-4'

"bara de acaldo"

*Paspalum**Calliandra**Metastelma**Prestonia**Asclepias curassavica* "galla"*Mimosa**Tournefortia**Paulinia**Anona*

—

*Boerhaavia**Indigofera**Bignonia**Acacia*

—

*Crotalaria**Southernthus**Acalypha*

14353

moss

*Pilea microphylla**Hedychieum* "heliotrope"*Lorsteria**Panicum trichoides* "paga con ego"*Lycopodium**Microteg debilis*

moss

moss

*Adiantum**Heliconia**Acalypha**Palechampia scandens*

"bilao camarrón" H. 3-4'

"bara de acaldo"

*Paspalum**Calliandra**Metastelma**Prestonia**Asclepias curassavica* "galla"*Mimosa**Tournefortia**Paulinia**Anona*

—

*Boerhaavia**Indigofera**Bignonia**Acacia*

—

*Crotalaria**Southernthus**Acalypha*

14354

moss

*Pilea microphylla**Hedychieum* "heliotrope"*Lorsteria**Panicum trichoides* "paga con ego"*Lycopodium**Microteg debilis*

moss

moss

*Adiantum**Heliconia**Acalypha**Palechampia scandens*

"bilao camarrón" H. 3-4'

"bara de acaldo"

*Paspalum**Calliandra**Metastelma**Prestonia**Asclepias curassavica* "galla"*Mimosa**Tournefortia**Paulinia**Anona*

—

*Boerhaavia**Indigofera**Bignonia**Acacia*

—

*Crotalaria**Southernthus**Acalypha*

14355

moss

*Pilea microphylla**Hedychieum* "heliotrope"*Lorsteria**Panicum trichoides* "paga con ego"*Lycopodium**Microteg debilis*

moss

moss

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moss

*Adiantum**Heliconia**Acalypha**Palechampia scandens*

"bilao camarrón" H. 3-4'

14386	<i>Sosyphium</i>	"algodon"	S. low	F. pet. prox yellowish, Nov. 10	Turbaco
14387	<i>Rhidinum</i>		SNT	F. upper $\frac{2}{3}$ p.	
14388	<i>Calliandra</i>		S. 5-6' to $3\frac{1}{2}$ '		
14389	<i>Amarantus</i>		H.		
14390	<i>Boraria</i>		H.		
14391	(sub.)		S. 7-10' drooping branches	Fr. curved	
14392	Carica <i>Carica</i>	"papaya de montaña"	T. 7-8' stem simple leafy at summit.	F. w. racemes up to 4cm. l.	
14393			V. woody		
14394	<i>Psychotria</i>		S. 6-8'		
14395	<i>Trema micranthum</i>		T. 12-15'		
14396			T. small		
14397	<i>Palicourea</i>		T. 12-20'		
14398	<i>Passiflora subpeltata</i>		V. herb.	F. Y. 8.	
14399			T. 15-20'	F. w.	
14400	<i>Sisymbrium</i>		V. herb.	Palm 7' leaves arising at base	
14401			Palm petiole $3\frac{1}{2}'$	F. cor. lobes reflex. stam. Fr. light	
14402			S. 4-5'		
14403	<i>Solanum</i>		on decaying log.	Fr. bl. lustrous	
14404	moss		on soil	Fr. light n.	
14405	moss		T. 40-50'		
14406			V. herb.	field	
14407	<i>Solanum</i>		H. repens at base	dense woods	
14408	<i>Panicum trychoides</i>		H.		
14409	<i>Stipa</i>		cactus $\pm 2'$		
14410	<i>Hylocereus</i>		Cac. in trees		
14411	<i>Epiphyllum</i>		Cac. plant drooping.		
14412	<i>Piper</i>		P. trunk 5' petioles 2-3 $\frac{1}{2}'$		
14413			S. much-branched		
14414			S. 5-10', stem slender		
14415	<i>Passiflora coriacea</i> "bejuco de Málaga"		T. 12-15'		
14416			V. herb.	F. sep. gr. whitish	
14417	<i>Pluylodeudron</i>		S. 5', stem simple	F. corona yellowish	
14418	<i>Coccolobus</i>	"huila de playa"	leafy at summit	w. whitish	
14419	<i>Cesalpinia</i>	"acacia"	V. scandent on trees		
14420	<i>Struthianthus</i>		T. 20-25'	field	
			T. 50-60' trunk $2\frac{1}{2}$ ' diam.		
			E. H. on Acacia	Nov. 20, 1952	

- 14421 *Bactris minor* "lata"
 14422 *Bursera*
 14423 *Mucuna*
 14424 *Stigmaphyllon* ...
 14425 *Abutilon*
 14426 *Triumfetta*
 14427 *Mimosa*
 14428 *Bauhinia*
 14429 *Meibomia*
 14430 *Ipomoea*
 14431 *Calliandra*
 14432 *Jacquemontia*
 14433 *Acrostichum aureum*
 14434 *Cissampelos*
 14435
 14436 *Baccharis trimera*
 14437 *Zumastrum*
 14438 *Acacia*
 14439 *Serjania*
 14440 *Hibiscus*
 14441 *Bauhinia*
 14442 *Acacia*
 14443 *Mikania*
 14444
 14445 *Aclisia*
 14446 *Alternanthera*
 14447 *Ipomoea carnea*
 14448 *Cracca*
 14449 *Cyperus ligularis*
 14450 *Linum*
 14451 *Stenodictya*
 14452 *Sicyos*
 14453 *Acacia*
 14454 *Solanum*
 14455 *Capparis*

- P.* trunk $3\frac{1}{2}$ '-5' fruit "small"
T. 10-15' branches droop.
V. herb. *F.* stan. w. wings pur.
V. herb. *F.* pet.
H. 2-4'
H. 2-3'
H. 2-3'
S. 7-12' branches droop.
H. semi-scendent. *F.* stan + wings pur.
V. herb. *F.* keel like
S. 8-12'
V. herb. *F.* light violet
F.
V. herb. *S.* much-branched
S. 8-12' becoming scand. *blotches w.*
V. herb. *F.* cor. w. gr. tincted
T. 10-20' *F.* corona ivory w.
V. herb. *F.* pet. cream
S. 8-12' *F.* fila. cream,
S. 4-8' *F.* pet. w.
T. 15-20' *F.* pet. yellow. tinged at center
V. herb. *F.* pet. & sta. yellowish
T. 10-15' *F.* ant. grassy. involucr. g. ridges light p. to w. also sta.
H. *F.* pet. purple ant pale
H. 3-4' *F.* sp. w. ant. y.
V. herb. *F.* purp.
S. 5-7' *F.* pet. bl. purp.
H.
H. pross, fleshy *F.* p.
H. Coarse 2-3½' *F.* cor. w.
H. repeat *F.* cor. y. fr. g.
S. 4-10' *F.* cor. w.
H. woody at base *F.* pink maculate without. *ant: y. poor cream dist.*
S. 2-4' much-branched at base

Nov. 12 thicket
roadside

Turbaco
between Tur. + Vol.

roadside thicket

in mud Los Volcanes

Nov. 21

P.P.J.O

P.G.

P.F.J.O

Nov. 26

- 14456 *Acacia* T. 10-20'
 14457 *Cyperus virens* H.
 14458 *Cyperus ferox* H
 14459 Palm trunk 2-10'.
 14460 F. at trunk of 14459
 14461 H.
 14462 H. 3-6' F.y.
 14463 *Zimbrystylis* H.
 14464 *Securidaca* S. 10-15' sepal cream
 14465 *Quamoclit* V. herb, twining pet. yellowish g.
 14466 *Burseria* T. 15-20' F. r.
 14467 *Lauranta* SB-10' Fr. o.
 14468 *Satina* caly. purple, without cor. purp. without, yellowish g. within, to white.
 14469 H. coarse Mar. 13
 14470 *Pilea microphylla* H.
 14471 *Meibomia* "amor seco" H. 1-3' F.b. Mar. 14 thicket
 14472 *Anona* "avón de veruga" "T. 15-20' Woods s.e. of Turbaco
 14473 *Olyra* H.
 14474 *Iponmea* V. herb. turn. F. pale lvs.
 14475 *musa* on rocks
 14476 "mamey" T. 60-75' Fr. edible
 14477 *Dioscorea* H. herb. F.g.
 14478 *Jatropha urens* "pringanosa" blanca" H. 3-6' F.w.
 14479 *Passiflora suberosa* V. herb.
 14480 *Coumelina* "sueda con sueda" H. F.g. peri. light b.
 14481 *Cassia* "chilueto" F. segments 1cm.
 14482 *Acacia* "zarga" F. said to be w. in April
 14483 "sacredanda" T. 20-25' F. sub-scap. to 10' common
 14484 "guanapana" T. 20-35' cream white } both fleshy
 14485 "nispero" T. 40-50' Fr. edible
 14486 "achiote" T. 10-20' F. pet. g. at base
 14487 "caimito" T. 70-90' Fr. edible
 14488 "dencello" T. 50-60' F. cum. diam.
 14489 *Tebroma* T. 15-20' F. car. y.
 14490 *Cesalpinia* S. 4-8' F. pet. y.
 14491 *algae*
 marsh between Tur. & Los Volcanos.
 14492 *Acacia* ~~down of stem at base, 9"~~ swamp.
 14493 *Tamia*
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14491	<i>Malvastrum</i>	H. coarse.	F. pet. pale scar. at base within
14492	<i>Eupatorium odoratum</i>	H. coarse 2-5'	F. cor. & fil. pale lilac
14493	<i>Stachys</i>	H. coarse 2-5'	F. cor. lobes light b.
14494	<i>Mimosa</i>	T. 10-15'	F. white at center.
14495		H. prostr.	F. sta. w.
14496	<i>Cyperus</i>	H.	F. cor. b.
14497	<i>Philodendron</i>	H. climbing on tree trunks	
14498	<i>Abutilon</i>	H. coarse 2-6'	F. pet. y.
14499	<i>Epidendrum angustifolium</i>	E. H.	
14500	<i>Acacia fletiana</i>	E. floating in pond	stem hollow 5 mm. undeci.
14501	<i>Acacia</i>	E. covered with cotton-like covering	total diam. 1/2 cm. F. sta. y.
14502	<i>Sida paniculata</i>	T. 15-20'	edges of muddy pond
14503	<i>Abutilon</i>	H. coarse 2-6'	roadside
14504	<i>Lemna</i>	H. coarse 2 1/2-5'	
14505	algae	Aquatic, floating on muddy bottom	edges of muddy pond
14506	<i>Melia</i>	S. 8-12'	thicket
14507	<i>Stigmaphyllon</i>	S. 2-4'	
14508	<i>Stigmaphyllon</i>	V. herb. twin.	F. pet. bright y. blue o.
14509	<i>Amorpha</i>	V. woody	F. pet. y.
14510	<i>Mimosa</i>	V. herb.	F. star + wings or. y.
14511	<i>Operculina</i>	V. herb.	F. keel g.
14512	<i>Cestrum</i>	S 3-10'; long	F. sta. w.
14513	<i>Lassaciea</i>	E. cream-y	
14514	<i>Serjania</i>	V. herb.	pr. green
14515	<i>Anagris</i>	V. woody	P-w
14516	<i>Justicia</i>	S 7-12' ^{brown} internally	Fr. purp. when ripe
14517	<i>Cassia grandiflora</i>	S erect, 3-5'	E-scarlet
14518	<i>Lippia</i>	S or low 2-8-15'	F light y
14519	<i>Cuphea</i>	H ± woody 3-5'	E-W
14520	<i>Tradescantia</i>	H much-branched	P light bl
14521	<i>Galactia</i>	H succulent	Per. w.
14522	<i>Evolvulus</i>	V. herb. twining	St. o. wings violet fil. deep pink
14523	<i>Bignonia</i>	H-prost.	F. blue
14524	<i>Stigmaphyllon</i>	V. woody	Fr. green
14525	<i>Nierembergia debilis</i>	Subsc. shrub	Pet. y
		H stems weak	F-green

→ gynophore scar. prox. pale. dist.

, Nov. 15. roadside northward from Arjona 3000 m.
sandy soil

thicket
roadside
thicket
edges of muddy pond
roadside

edges of muddy pond

thicket

14526	<i>Selenicereus</i>	subcandent succulent; on tree trunk	
14527	<i>Bignonia</i>	V-woody	Fr. green
14528	<i>Acacia</i>	T-12-20' J	all fl. part greenish-y. F-purple (dry)
14529	<i>Tillandsia</i>	H-Epiph.	
14530	<i>Tillandsia</i>	H-Epiphyt 4'	
14531	<i>Metastelma</i>	V-herb.	P
14532	<i>Jacquemontia</i>	V-herb.	gr.-w.
14533	<i>Lantana camara</i>	S-2-6'	C-wl.
14534	Sarache "aji picante"	H coarse 2-4'	F-tube ir lobes or. fr. green, yellow
14535	<i>Securidaca</i>	S becoming scandent	F-Cor. w., antr. purple st. okalo
14536	<i>Begonia</i>	V-woody	F wings white
14537	<i>Metastelma</i>	V-herb.	F-Calyx green, base w.
14538	<i>Turnera</i>	H-woody at base	F cor. yellow - w.
14539	<i>Carnegiea</i>	succ. cactus 3-20'	F Pet. y, base purple
14540	<i>Solanum</i>	H coarse, woody	
14541	<i>Aristolochia</i>	at base 4-5'	
14542	<i>Phorenia</i>	V-herb.	calyx green, pink-trig.
14543	<i>Bauhinia</i>	Epiphyt. S.	Plant bright green
14544	<i>Verbenaria</i>	T-12-15'	gloss. red-purple
14545	<i>Gommier</i>	H-woody at base 2-3'	flored blue-purple
14546	Coupl.	V-twining	F-Cor. rich pink, pale dist.
14547	<i>Jernindia "olla de monos"</i>	H-coarse base	F Cor. lavender
14548	<i>Solanum</i>	T	Fr. orange, wood and for rafters
14549	<i>Jacquemontia</i>	H 2-3.5'	F-C. w. within, pink without
14550	<i>Melodra</i>	V-twining	F-Cor. light pink
14551	Coupl.	H-coarse	F-P. y.
14552	<i>Begonia</i>	H " 5' odor	Br. light-pink, darker F stripes; anthers gr.
14553	"	V-woody	F-Cor. y.
14554	"	V "	F-Cor. w, pink-trig-out
14555	"	V "	F-Cor. rich pink (see note)
14556	<i>Oryza sativa</i>	V "	F Cor. y. antr. gr.
14557	<i>Solanum</i>	grass 3'	
14558	<i>Paspalum</i>	H at base	F-Cor. light purp. anthy
14559	<i>Cestrum</i>	H-2-3'	
14560	<i>Mimosa</i>	H erect 2-4'	F (see note)
		H stem viscos	
		H 1.5-3', woody base	F-Pet. gr, stam. w.
		H branched at	anthe. y.

Nov. 15 Thicket, northward from Arjona.

Pc-1

anthers y, prox., w. dist. Edge of corn field

In cornfield
Edge of cornfield
In marsh

14561	<i>Craecia</i>	S - 3'	F all parts light pink
14562	<i>Bactris</i>	S - 3-8'	
14563	<i>Tillandsia</i>	Ephyll. H	
14564	<i>Crotalaria auangynoides</i>	H - Coarse	F. (see notes)
14565	<i>Opuntia</i>	4-8'	
14566	<i>Cyperus</i>	H	-
14567	<i>Symerium</i>	H. rooting in mud	
14568	<i>Paspalum</i>	H	sta. y.
14569		H	F. per. g. sta. w.
14570	<i>Polygonum</i>	H 2-5' l.	F. y.
14571	<i>Malachira</i>	H coarse 3-6'	F. cor. w.
14572	<i>Misania</i>	V. herb.	F. cor. y.
14573	<i>Jussiaea</i>	H. coarse 3-6'	F. cor. y.
14574	<i>Cassia</i>	H. 2-5'	F. cor. y.
14575	<i>Periplanthes aequinoctialis</i>	H. rooting in mud	F. cor. tube g. lobes violet
14576		H.	F. cor. violet, paler prox.
14577	(Acanth) <i>Oocarpa</i>	H. floating on sur.	
14578	algae	growing on floating plants, sticks, etc.	
14579	<i>Paspalum</i>	H. pros. on sur. rooting in mud.	
14580	<i>Alternanthera</i>	H. pros.	F. pet. w, ant. y.
14581		T. 10-12'	F. pet. y.
14582	Samanea <i>Scoparia</i>	H. woody at base	F. pet. w.
14583	<i>Hyptis</i>	H. coarse. 3-6'	F. cor. w.
14584	<i>Crotalaria</i>	H. ± 1-2'	F. cor. y.
14585	<i>Acacia</i>	T. 10'	F. sta. y.
14586	<i>Talinum</i>	H. 1'	F. cor. pur. ant. y.
14587	<i>Rufectotria</i>	S. 10-15'	F. pet. pale g. sta. w.
14588	<i>Tristellanthus</i>	woody at base.	
14589	<i>Cucurbita</i>	E. H. branches drooping, 2-10'	F. cor. g. pmp. trifid dist.
14590	<i>Cissus</i>	V. woody at base	F. cor. y.
14591		V. woody at base	Fr. b.
14592	<i>Piaropis cressaeper</i>	floating	
14593	<i>Acacia fiktans</i>	floating	
14594	<i>Acalypha</i>	floating	
14595	<i>Cassia</i>	H. ± 1'	
		S. or coarse H. 2-8"	F. cor. or, in mud 2-4" water

Fall past light pink Nov. 15 Thicket, northward from Arizona.

F- (See notes)

Along r.r. Arizona
used as fence
Along r.r.

Mar. 16 borders of the Sique southward
from Soplamiento

5-10 cm. 1

clearing near Lijie

thicket

borders of Liguria

swampy pond near Ligue

- 14596 *Ipomea* H. rooting in mud F. cor. rich p.
 14597 *Utricularia* H. floating F. cor. y.
 14598 *Lophotocarpus* H. rooting in mud
 14599 *algae* H. 2-4' water floating
 14600 *Acacia* H. floating in algae S. 2-4' spreading branches often F. bil. p.
 14602 *Syndropis* H. coarse, branches trailing in water F. cor. w. edges of Rigue
 14603 *Sycos* V. herb. Fr. very dark g. F. cor. y.
 14604 *Eragratus* H. too. or mud.
 14605 *Cyperus* H.
 14606 H.
 14607 *Salvinia* floating
 14608 T. 30-40° adven. roots from branches 2-10'. muddy pond between Sop. + Areval
 14609 floating thicket
 14610 V. herb. F. stan. purp. prox. w. dist. P.C.-5
 14611 *Ipomea* V. herb. F. wings w. prox. pur. dist.
 14612 *Fimbrystilis* V. herb. F. cor. w. prox. p. dist.
 14613 *Castilia* H. in mud
 14614 *Cyperus* H. rooting in mud. leaves floating
 14615 *Sagittaria* H. rooting in mud, 1-2' water
 14616 *Latura* H. f. above water H. 3-10' muddy
 14617 *Jatropha gossypifolia* H. coarse 3-6' F. cor. y. roadside thicket
 14618 *Leonitis* H. coarse 3-5' F. cor. deep red, paler.
 14619 *Alamanda* H. coarse 3-7' F. cor. o.
 14620 *Goliclos* S. 3-10' milky F. cor. rich purp.
 14621 *Cassia* V. herb. F. cor. w.
 14622 *Bignonia* S. 5-12' F. cor. y.
 14623 *Glycerinae* V. woody. F. cor. gr. prox. or. dist.
 14624 *Ipomea* V. herb. stem. F. cor. purp. paler dist.
 14625 *Trapezia* V. herb. succ. Fr. seeds o. Nov. 18 thickets between ur. and
 (leg.) V. herb. F. stan. w. to pale y. 4-spirally coiled 200-
 14626 Cladonia V. herb. F. style w. 6-8-spirally coiled 500'
 14627 (rub.) on tufts
 14628 branches divaricate 4
 14629 S. 6-10' 7
 14630 *Lioscorea* V. herb. turn. F. greenish w. 4
 14630 *Calliandra* S. 8-12' seeds alternately elevated in pod. 1

14631	<i>Icica</i>	T. 40-70'	F. pet. w. 1 cm. wide.	Nov. 17 thickets between Tur. & Torrecillo
14632	<i>Bauhinia</i>	S. slender, with	F. sta. light gr. w.	"
14633	<i>Lalechampsia</i>	S. sub. scand. br.	F. pet. w.	"
14634	<i>Bignonia</i>	V. herb.	F. bracts pale g.	"
14635	<i>Meibomia</i>	V. herb.	F. cal. tube g. lobes w.	"
14636	<i>Sauvagesia</i>	V. herb.	F. stan. wings pink dist.	w. pros.
14637	<i>Serjania</i>	H. coarse, few branched	F. keel w. plant vacas	"
14638	<i>Opercularia</i>	V. woody, climbing	F. pet. pinkish w.	"
14639	<i>Nigella</i> <i>Syatherisma</i>	V. upright of trees	F. pet. pink. w.	"
14640	<i>Paspalum</i>	H. reptant at base	F. calyx. gr. pros. salmon dist.	inside: dull salmon first quarter, yellow outside. dusky salmon 3rd quarters of pros.
14641	<i>Meibomia</i>	H. branched at base	F. stan. wings pinkish pros.	roadsides
14642	<i>Tripsacum</i>	H. branches decumbent	F. keel. w.	"
14643	<i>Ecliptes</i>	H.	F. cor. y. g.	limestone rocks, edge of woods
14644	<i>Quamoclit</i>	V. herb.	F. cor. r.	"
14645	<i>Lycos</i>	V. herb. reptant	F. cor. y.	"
14646	<i>Crechites</i>	V. rooting at nodes	F. invol. g. rays light y.	"
14647	<i>Solanum</i>	H. 4-5"	F. cor. w. antr. w.	"
14648	<i>Peperomia</i>	H. 2-4"	F. cor. w. antr. w.	"
14649	<i>Cyperus</i>	H. succ. reptant in detritus	H. in crevices of limestone rocks.	edge of woods.
14650	<i>Passiflora biflora</i>	V. herb.	S. 3-6"	thickets
14651	<i>Calliantha</i>	F. sta. w. (sta. divergent in late afternoon)	"	"
14652	moss (rub.)	on soil, sides of ditch	T. 30-40'	edge of woods.
14653		Fr. mid with milky sap.	F. mid with milky sap.	Torrecillo
14654	<i>Iponmea</i>	V. herb. pros. F. w.	V. in grass. F. w.	"
14655	<i>Piscorea</i>	V. drooping	V. her. drooping	"
14656	<i>Actinomerum</i>	F. perianth b.	F. sta. w. to green and purp. dotted, fleshy	limestone rocks in dense woods
14657		H. from trees, leaves to 4' 6" 1 1/2" w.	H. in crown	limestone soil "
14658	<i>Asplenium</i>	T. 10-15" trunk 6" diam.	F. repant at base	rocks "
14659	<i>Autunium</i>		V. climbing on tree trunks	soil "
14660	<i>Actinomerum</i>	V. climbing	V. climbing	" "
14661	<i>Actinomerum</i>	V. herb. low	F. stan. w. without w. w. thin rich pros. at center	field
14662	<i>Bradberia</i>	T. 20-30"	F. wings w. purp. at apex. Keel. w. w. 19	Torrecillo
14663	<i>Rhus</i>	F. pet. w.	"	"
14664	<i>Acalypha</i>	S. 4-6' simple stem	F. yellowish gl. pistil purp.	edge of woods
14665	<i>Vernonia</i>	H. 4-7'	F. invol. deep r. purp. br. sta. w.	thicket

- 14666 (*Comp.*)
 14667 *Solanum*
 14668 *Tornearia*
 14669 (*malpigh.*)
 14670 *Costus*
 14671 (*hepatic*)
 14672 *Sterculia*
 14673 (*rub.*)
 14674 ~~lichen~~
 14675 lichen
 14676 moss
 14677 *Cyclopeltis*
 14678 (*apoec.*)
 14679 (*euphorb.*)
 14680 —
 14681 *Lasiacis*
 14682 *Pluniveria*
 14683 *Wissadula*
 14684 *Hiscoeca*
 14685 *Colaum*
 14686 *Cassia*
 14687 *Stachys* "baca morte"
 14688 *Leonurus*
 14689 (*malpigh.*)
 14690 *Pilea hennarioides*
 14691 *Ipomoea carnea*
 14692 *Bauhinia*
 14693 *Ipomoea*
 14694 *Eupatorium*
 14695 *Rhabergia*
 14696 *Anagrio*
 14697 —
 14698 —
 14699 *Eupatorium*
 14700 *Acacia*
- H. coarse invol. light g. rays. w. per. style heads w. ~~at~~ flor. g. w.
 S. 6-9' F. cor. w. ant. y.
 branches ~~w.~~ F. cor. tube g. lobes w.
 S. sub. - scan to 9' l. F. pet. y.
 branches F. fr. with p. wings
 S. 4-8' elongated coarse L. very w. peri. r.
 H. 2-4' F. erect. P. ~~cor.~~ F. g. dist. eliations, coriaceous.
 on tree trunks limestone soil in dense woods
- "achote de monte": T. 20-40' med. (spec. from cut apparently T. size branches on ground) Fr. r.
~~atree~~ T. 40-60'
 on tree trunks
 on limestone rocks
 F. flowers to 5' l.
 Y. west. turn. F. lobes w. g.
 T. 30-40' Fr. 3-celled?
 T. or. S. (spec. from broken branches)
- V. herb.
 S. 4-7' F. cor. pale y.
 H. coarse 2-4' F. pet. + sta. o.y.
 stem erect dependent fr. branch
 V. herb. slender, bran. $6\frac{1}{2}$ cm. wide
 S. 5-8' at top F. pet. y.
 T. 10-12' much upper lip p. lower w.
 H. 1-2' branched F. tube upper lip p.
 coarse F. lower lip purp.
 H. 2-5' F. pet. y.
 S. 4-8' F. pet. y.
 H. in crevices of limestone rocks
 stem filiform. semi-pros
- V. herb.
 F. pur.
 S. 5-10' F. pet. pur. w.
 F. st. w. streaked with d. spp.
- V. herb.
 somewhat F. buds greenish
 woody F. pur.
- V. woody F. buds greenish
 S. 5-7' F. pur.
 T. 15-20' branches F. sepals
 drooping F. glands. g.
 S. 6-10' reflexed
- floating H. coarse, much branched F. invol.
 at base 4-8' F. flacts w.
 S. or T. 8-15' entire flower per se w.
- small pond
 light g. darker tips. Nov. 23 thickets along river,
 Mar. 23 Calamar
- 19 Mar. ~~20~~ thicket Torrecilla
- Nov. 20 thicket n. of Turbaco
- roadside
- Mar. 21 in sun Los Volcanos
- Nov. 22 thickets n. of Turbaco
- reflexed
- 22m. thickets along river, Calamar

form ~~with~~ infested with *Puccinia incocerata* (described as

Cissus sicyoides L. *Spondyliolum apogaea* Persl.

- 14701 *Solanum* H. coarse, woody at base F. cor. w. pinkish
14702 *Stachys* " " 4-6' F. tinged without.
14703 *Antidaphne* H. coarse, branched. F. cor. light b.
14704 *Vitis trifolia* E.H. succulent F. buds g.
14705 *Passiflora hispida* F. y.g.
14706 *Mimosa* " tropilla " S. 8-15' Fr. g.
14707 *Cordia* " invita " S. T. 6-20' F. pet. in w. st. p. w.
14708 *Funastium* V. herb. milky F. cor. light g. without
14709 *Convolvulus* V. subtropical F. w. without
14710 *Milsonia* V. herb. somewhat succ. F. cor. w.
14711 *Licliptera* H. 2-4' F. viol. light g. color
14712 *Crocea* H. 2-4' F. dark. flowers w.
14713 *Ipomea polyantha* V. herb. twin. F. cor. pur. pale without
14714 (small.) H. 4-6' F. stam. g. v. without p. ting.
14715 F. wings g. y. keel w. + sta. y. Nov. 24 thickets - W. of Calamar
14716 *Juffa* V. herb. 5-red striped pods. corona. g. p.
14717 (comp.) V. herb. in ditch
14718 *Passiflora* H. much branched.
14719 *Rianthera* H. 1-3' F. cor. p. w.
14720 *Juffa* V. herb. F. cor. y.
14721 *Petunia* S. 4-6' F. cor. w.
14722 *Brabera* V. herb. twin. F. aut. y.
14723 *Zalimum* H. F. stam. w. p. ting. without
14724 *Melia azederach* T. 20-30' F. wings w. per. tipped keel w.
14725 *Alternanthera fricoides* H. pro. Nov. 26 thicket.
14726 *Ceiba pentandra* " ceiba blanca " T. 80-150' F. pet. w. columnar to deep per. biundata"
14727 *Carica* H. 4-10' leaves F. g. t. w. El Banco
14728 *Lycopodium* H. to " 4' F. uniol. perianth yellowish
14729 *Asplenium* F. in crotch
14730 *Poly sodium* F. of tree
14731 *Jatropha* V. herb. coarse H.
14732 H. 5-8' F. uniol. perianth r.
14733 *Piper* H. 2-4' F. species grayish w.
14734 *Passiflora* V. herb. H. 4-10. to 5' F. uniol. g. to b.
14735 *Calotheca* H. 4-10. to 5' F. perianth y.

aut. y. fox
w. dist.
Nov. 23 thickets along River - Calamar

leaves used to scrub paos

corona w. lustrosus
aut. b.
upper lip transversely w.-bowed at centre.
without

Nov. 24 thickets - W. of Calamar
5-red striped pods. corona. g. p.

in ditch

thickets

wings w. per. tipped keel w.
Nov. 26 thicket.
columnar to deep per. biundata"

El Banco

Nov. 26 riverside
Nov. 28 thicket along stream Puerto Wilches 105m.
Gamarras (Mayd. sp.)

- 14736 *Bilia* H. 4-8' leaves to 3'. F. invol. g. to r. per. r.
 14737 *Cotinus* H. 10-20' F. fr. r. plox. g. blist.
 14738 *Sicyos* V. herb. F. invol. g. pet. w. p. dict.
 14739 *Passiflora vitifolia* I. herb. F. pet. F. tube. Fr. dark g.
 14740 H. F. dict. elsewhere.
 14741 *Solanum* H. 1-3' spread. F. cal. g. pet. w. st. y.
 14742 *titi* *Cissus*? V. herb. F. pedicel. cal. cor. red.
 14743 H. corona. fily.
 14744 H.
 14745 H. 15-20' erect, slender T. trunk 2" diam. Fr. g. pedicels r.
 14746 *Clavija* T. 15' Fr. g.
 14747 H.
 14748 moss on decaying wood
 14749 *Bactris* "albarico"
 14750 *Adiantum*
 14751 *Erythronium*
 14752 *Athurium*
 14753 *Phaseolus*
 14754 *Nephrolepis*
 14755
 14756 *Juglans* "seca"
 14757 *Tropaeolum utilissimum* "yacra" H. coarse
 14758 (amarant) V. herb. w.
 14759 *Calliandra* T. semi-pow.
 14760 *Meibomia* H. semi-pow. F. pet. p. paler pow.
 14761 *Adonis* V. woody F. pet. g. p. ant. b.
 14762 *Plyllanthus* H. erect, 4-6' F. bracts s. per. o.
 14763 *Calathea* H. pow. F. cal. g. pet. w.
 14764 *Lichtensteinia* sub. H. pow. Fr. b.
 14765 *Ardisia* V. woody F. cor. p.
 14766 *Cyperus ferox* H. semi-pow.
 14767 *Lictiplera* H. up to 2' F. cor. p. w.
 14768 *Musa* V. herb. F. bracts g. cor. w. st. w.
 14769 *Solanum* H. coarse, t. F. cor. dark p. ~~dict.~~ w. dict.
 14770 *Festuca* H. woody at base S. drop. bracts
- H. 4-8' leaves to 3'. F. fr. r. plox. g. blist.
 H. 10-20' F. invol. g. pet. w. p. dict.
 V. herb. F. tube. Fr. dark g.
 I. herb. F. dict. elsewhere.
 H. 1-3' spread. F. cal. g. pet. w. st. y.
 V. herb. F. pedicel. cal. cor. red.
 corona. fily.
 15-20' erect, slender T. trunk 2" diam. Fr. g. pedicels r.
 15' Fr. g.
 H.
 on decaying wood
 "albarico"
 "seca"
 "yacra"
 herb. w.
 semi-pow.
 pet. p. paler pow.
 pet. g. p. ant. b.
 bracts s. per. o.
 cal. g. pet. w.
 cor. p.
 semi-pow.
 cor. p. w.
 bracts g. cor. w. st. w.
 cor. dark p. ~~dict.~~ w. dict.
 drop. bracts.
- Nov. 28 thicket along stream P. W.
 swampy jungle
 thicket along stream
 banks of stream

14771	<i>Solanum</i>	S. sub-scar.	Nov. 28 banks of stream	P. W.	see
14772	<i>Cyperus leucolae</i>	H. repeat, bran.	F. buds gr. w.		2
14773	<i>Tirantia</i>	H. erect, succ	F. per. p. w.		33
14774	<i>Cestrum</i>	S. scar.	F. g.		4
14775	<i>Connulina</i>	H. 1-2'	F. per. p. w.		4
14776	<i>Bradberia</i>	V. herb.	F. sta. w. without deep. in		4
14777	<i>Physalis</i>	H. herb.	F. pur. stripe near center at base in	at center. wings pale. Keel w.	4
14778	<i>Iponmea polyanthes</i>	V. twin.	F. cor. gr. y. purple spotted	tickets along river	4
14779	<i>Jussiaea</i>	coarse	F. cor. y.		4
14780	<i>Paspalum</i>	H.	F. pet. y.	in ditch	4
14781	<i>Utricularia</i>	H. floating	F. cor. y.	thicket along r. clearing	4
14782	<i>Cassia</i>	S. 7-10' much- bran.	F. pet. y.	in savann. marsh	4
14783	<i>Cyperus diffusus</i>	H. damp soil		thicket along r.	4
14784	(Amarant.)	S. 8-12'		ditch	4
14785	<i>Saccolaphis</i>	H. repeat at base		thicket along r.	4
14786	grass	H. 6-8'		in marsh	4
14787	<i>Maranta</i>	H. coarse	F. cor. bl. p.	clearing	4
14788	<i>Mimosa</i>	H. 4-6'		in marsh	4
14789	<i>Salvinia</i>	H. semi-pros.	F. sta. w.		4
14790	<i>Sterculia</i>	floating on surface			4
14791	<i>Ceratopteris</i>	H. 2-3'	F. pet. rich.		4
14792	<i>Ricciocarpus coronulatus</i>	rooting in mud			4
14793	<i>Velutinodes</i>	H. coarse		clearing marsh	4
14794	<i>Hyptis</i>	H. 3-5'	F. cor. light b.	clearing	4
14795	<i>Rhynchosia</i>	H. sub-pros.	F. cor. light b.		4
14796	<i>Abrus pulchellus</i>	H. coarse	F. pet. pale.		4
14797	<i>Fuligotilis</i>	H. at base			4
14798	<i>Mimosa</i>	H. in sandy soil			4
14799	<i>Piper</i>	H. somewhat	F. sta. w.		4
14800	<i>Passiflora quadrangularis</i>	H. woody 2-8'	F. spikes w.		4
14801	<i>Polygonum</i>	S. few-bl.			4
14802	<i>Hiraea</i>	V. herb. F. bracts light g. free to base		damp thicket	4
14803	<i>Eupatorium odoratum</i>	F. all fl. parts w. except		in marshy land	4
14804	<i>Acacia</i>	F. w.	g. sepal awn + stig. on sheet	other decr. thicket, climbing over	4
14805	<i>Oldenlandia</i>	S. 3-5'		thicket, low bushes	4
		F. pet. y. Fr. bright r.		in marshy land	4
		S. 5-8'	F. bracts g. darker dist.	marshy thicket	4
		S. 7-10'	F. cor. red.		4
		H. pros.	F. sta. w.		4
			F. cor. light b.	along R.R.	4

14806	<i>Hyptis</i>	H. 3-4'	F. cor. bl. vs.	Nov. 28 in marshy land	P. Int.
14807	<i>Bidens pinnatifida</i>	H. 1-2'	F. rays light y.		
14808	palm	P. trunk 3-5': 2-3" diam. frond 5-6"	F. cor. deep y. stipe 3-3 1/2"		
14809	palm	P. trunk 12' very spiny. frond: stipe 3". blade up to 16". trunk 3-4" diam.			
14810	<i>Hibiscus</i>	H. 1-2'	F. pet. deep r. pet. bright	p. in upper half. in marshy land	
14811	<i>Passiflora quadrangularis</i>	M. herb.		clearing	
14812	<i>Rynchospora globosa</i>	H.		clearing	
14813	grass	H.		in marshy land	
14814	<i>Veronica Schultesii</i>	H. rooting in F. cor. p. l.			
14815	<i>Tantana canara</i>	H. green	S. low, with herb. F. cor. bright r.		
14816	leg.	S. 2' branches	V. climbing F. stam red. pup at center in, pet. w.	root pup.	
14817	<i>Gouania</i>	V. herb. high F. wings & keel pup.			
14818	avacat.	V. herb. F. pet. w.	H. prosp. branches F. greenish		
14819	<i>Pityrogramma calomelana</i>	H. close to ground			
14820		F.			
14821	<i>Castilia</i>	H. 5-8-10'	F. buds purple, leaves dark g.	jungle	
14822	<i>Pourouma</i> no "lechero"	H. rooting in mud, water 2' deep, F. pet. w.	H. leaves floating	small pond	
14823	<i>Passiflora quadrangularis</i>	T. 4-5' leafy only	T. at summit stem simple, straight	woods	
14824	<i>Cardia</i>	V. herb. much- main stem 1 1/2" diam.		thicket	Stateia "Hilonucter 16" 10-11 ^{5m.}
14825	<i>Eragrostis</i>	S. 6-8' bran.	S. 6-8' F. cal. light g.	P. W. to P. Santos	
14826	<i>Urena lobata</i>	H. coarse, woody at base, 4-8"	F. pet. p. gynoph. r.		
14827	<i>Meibomia</i>	H. pros.	F. pet. b.	clearing	
14828	<i>Zornia</i>	H. pros.	F. pet. y.		
14829	<i>Cyperus matsuii</i>	H.			
14830	<i>Sellaginella</i>	F.			
14831	<i>Salpichlaena volubilis</i>	F. twining around small trees, etc.		woods	
14832	<i>Plyllodesdron</i>	V. climbing tree, F. spikes light g.		dense woods	
14833	<i>Adiantum</i>	F.			
14834	(velas.)	H.		densely forested stream banks	
14835	<i>Miconia</i>	S. 3-8'	F. pet. & sta. w.		
14836	<i>Aeopeltula blechnoides</i>	F. bonds in a crani	F. pet. & sta. w. Fr. b.	dense woods	
14837	<i>Lindsaea lancea</i>	F.		stream banks	
14838	<i>Trichomanes pinnatum</i>	F.			
14839	mos.	S. 4-8'	on decaying wood, F. cor. apparent. glaucous.		
14840	(rub.)		out.	dense woods	

- 14841 *Bilai* H. 2-4' erect. F. bracts prox. yg. at
 14842 *Rhipicospora* H. per. g. poor taking
 14843 *Sellaginella* F.
 14844 *Cryptocarya* H.
 14845 palm P. stipe 2 $\frac{1}{2}$ ' l. broad 4-6' l.
 14846 *Miconia* P. trunk ~~20 cm.~~ h.
 14847 *Chionanthus* S. 4-8' F. pet. p.w.
 14848 *Miconia* H. stem simple erect 3-7' ± 3" diam.
 14849 *Cordia (?)* S. slender F. cot. light P. ~~st. w.~~
 14850 grass H.
 14851 *Acacia* T. 12-20'
 14852 *Visinia* T. 15-20' bran. droop.
 14853 *Manettia* S. sub.-scand. F. cor. w. Fr. bl.
 14854 *Solanum* S. sub.-scand. Fr. shiny
 14855 *Miconia* S. 5-8' Fr. light r.
 14856 *Renialnia* H. stem 4-7' Fr. deep pur. pulp.
 14857 *Hirtella* V. woody Fr. red-pur. cal. persia F. spikes basal
 14858 *Hyptis* H. weak F. cor. w. upper lip spotted with car. within
 14859 grass H. coarse F. cor. rich pur.
 14860 *Clephantopsis* H. coarse F. cor. rich pur.
 14861 *Panaea nodosa* F. on decayed log
 14862 moss F. on decayed wood
 14863 *Lindsaya* on twigs
 14864 moss on twigs
 14865 hepatic on twigs
 14866 *Carlobovica* P. trunk 4-10' simple 1-2" diam.
 14867 *Selaginella* H. with app. to tree trunk
 14868 *Polybotrys* F. scandent on tree trunk
 14869 *Carlobovica* P. candel subter
 14870 *Miconia* S. 4-8' leaves petiole 4-5' l. 2 leaflets
 14871 moss on twigs
 14872 *Sellaginella* appressed to soil of bank.
 14873 *Lindsaya* F. on soil
 14874 moss S. 4-8' few bran.
 14875 *Piper* dense woods K. 16
- keel yg. at margin dist. r.
 midrib, elsewhere w.
 Nov. 29 dense woods along stream
- dense woods
 at summit F. spots light P. per. tube y. poor, r. b. dist.
 lobes r. prox. oblique g. dist.
- clearing
 woods
- d.w. along stream
- hair of infl. w. when young, becoming r.
- at summit dense woods
 along stream
- dense woods

- 14876 *Piper*
 14877 *Playlodenron*
 14878 sedge? - *barkatoi*
 14879 moss
 14880 moss
 14881 *Cheloneanthus*
 14882 *Eupatorium*
 14883 *Acocardium occidentale*
 14884 *Moniera*
 14885 *Bixa orellana* "bijá"
 14886 *Cayanus indicus*
 14887 *Psychotria*
 14888 *Abutilas*
 14889 *Bignonia*
 14890 *Visnia*
 14891 *Taramans*
 14892 *Gecropia*
 14893 *Scutellaria globosa*
 14894 *Ficus*
 14895 *Mendoncaea*
 14896 palm.
 14897 *Cyperus*
 14898 moss
 14899 *Tripsacum*
 14900 palm
 14901 *Acalypha*
 14902 *Lichmeraena*
 14903 *Cleome*
 14904 (*Cleomaceae*)
 14905
 14906 *Cleome spinosa*
 14907 *Catun*
 14908 (rub.)
 14909 *Iponmea*
 14910 *Piper*

S. 7-10' on tree trunks
 V. coarse, in clump.
 H. coarse, in decaying wood
 on decaying wood
 H. coarse F. cor. gr. y. poor.
 pale y. diet
 S. 5-10' bracts w. lit margin, g. ner.
 T. 25-40' bran. F. pet. g.-p. tuiged, r. st.
 spicid. F. cor. w. - p. tuiged wat.
 H. pro. annual F. aut. y
 T. ± 15' Fr. seeds r. F. pet. w.
 S. 7-9' sta. y. pros. w.
 F. stay. + wings y.
 S. 6-12' seed gr. y.
 F. cal. light y.
 H. 3-7' cor. bright y., becom.
 F. set. light y.
 cor. pur. paler prox. in.
 V. woody F. aut. dark y.
 S. 6-12' cal. nut. b.
 F. pet. g. y. lustrousant
 V. herb. F. pet. deep. b.
 T. 30-40' F. stam. spikes w.
 T. petioles ± 2' F. bracts bright pur.
 H. 1-2' F. cal. w.
 S. 12-15' bran. elong.
 V. herb. F. cor. rich p, paler prox.
 P. 50-60' trunk 6-8" diam, green in upper
 P. prop roots to 4", infl. 30' from
 H. base.

on wet boards

H. caudex 2-3' infl. at base of
 P. stipe 2" blade 3-4" stripes
 T. slender trunk

H. 1 $\frac{1}{2}$ -3' F. pet. w. pub. tuig. at base
 H. 1 $\frac{1}{2}$ -3' F. g. at apex. slg. pur.
 T. 20-40' F. set. w. light g. at center
 V. woody F. aut. light y.
 H. 1-3' F. w. go. tuiged frst.
 H. 2-4' F. perianth. w. p. tuig. in.
 V. herb. F. cor. pale r.
 V. herb. F. aut. pale y.
 F. cor. pur. deeper in pros.
 F. paler ext. pros.

S. 3-5'

Nov. 29 dense woods

K. 16

P.L.

at centre. clearing, sandy soil
sta. pale bl. p. thicket
ipid within. clearing
out. dark g. open sandy soil
dirt. clearing

ing reddish, lobes greenish at tip thickest
thickest

waste land.
edge of woods

10' ~~height~~
infl. leaves: clustered at summit
8-10' l.
edge of woods
waste land, sandy soil.

waste land, sandy soil.

thicket

waste land, s. o.

~~thicker~~

dense woods

cleaning

Cleaning
feathers

Wiley, some day

— 16 —

~~Cleopatra~~

P.W.

P.L.3

P.L. 41

- 14911 *Lepidium*
 14912 *Mauettia*
 14913 *Jussiaea*
 14914 *Eleocharis*
 14915 *Cyperus laosae*
 14916 *Torenia*
 14917 *Psychotria*
 14918 *Mimosa*
 14919 *Cassia*
 14920 *Mikania*
 14921 *Milonia*
 14922 *Cesalpinia* *Poinciana pulcherrima*
 14923 (leg) "grana"
 14924 *Rhipsalis semilata*
 14925 (velut.)
 14926 *Rhamnaceae* (euphorb.)
 14927 algae
 14928
 14929 *Mauettia*
 14930 moss
 14931
 14932 *Sporaea*
 14933 *Dioclea caerulea*
 14934 *Pectis*
 14935 *Caelliandra*
 14936 *Gianthera*
 14937 *Funastrium*
 14938 *Acacia*
 14939 *Palicourea*
 14940 *Oxytanthus*
 14941 *Hibiscus*
 14942 *Jagmemantia*
 14943 *Piper tuberculata*
 14944 *Bomarea bicolor*
 14945 *Passiflora megalosperma*

H. pros. some- f. stem + wings deep pur.
 what woody f. keel w.
 S. 4-7' f. cor. w. p. at throat in
 coarse (F. pet. p. branched
 H. 4-8' at base above middle
 H. 1½-3'
 H.
 H. slender f. ped. + cal. r.
 S. 4-5' stem slender, ½-3" diam, bran.
 S. above mid. Panicle marshy at sum.
 10-12', slender trunk, F. pet. p.
 T. bran. near top pet. w.
 S. slender 2-5' F. sta. w.
 S. 3-6' bran.
 bran. simple, F. pet. r. to y.
 S. 6-10' (from base) F. sta. r.
 T. 30-40' trunk 1½" diam.
 F. bracts in a crown, stem. hairy.
 F. stiff erect, pet. + sta. pale p.
 H. glaucous F. ant. pur.
 T. 10-15' stiff.
 T. droop.
 on bottom of slowly
 running stream.
 S. with straggling F. col. light g.
 S. branches
 S. 2-4', bran. elong.
 on moist bank.
 coarse, fleshy. outer per. seg. w.
 H. 6-12' f. inner w. 2' long,
 V. herb. f. cor. p. prox. w. dark
 V. turn.
 H. vine F. pet. sky blue
 H. prostrate F. br. green, rays deep y.
 T. 15-25 ft. F. stamens w.
 H. cor. eight pink,
 H. lower lvs purple-dotted
 H. vine F. cor. & corona
 F. pure white
 S. 3-8 ft. F. pet. green
 S. 5' stam. eight pink
 T. 10-15 ft.
 Bar. shrub
 S. few-br.
 S. 7-8 ft.
 V. herb.
 S. 6-9'
 S. 3-8' bran. elong.
 V. herb.

Dec. 1 clearing
 edge of woods
 marshy land
 marsh

edge of woods
 F. pet. g. w. sta. w. clearing
 F. ant. dark g. edge of woods

clearing
 marshy land
 edge of woods
 woods

marshy land
 clearing
 p. dist. at center in marshy land ^{2 largest seg. deep. at suture}
^{spathe w. prox. deep. r. dist.}
 thicket

Dec. 2 thicket Puerto Wilches

waste land
 edge of woods
 marsh

edge of woods
 on #14939

Dec. 8 thickets between Mariño & El Tambor ¹⁰⁰⁻¹³⁰⁰
 along trail

Polaria *P. tate*
 "(K.3. from P.W.)"

- 14946 (rub.)
 14947 *Cordia ferruginea*
 14948 *Jubaea*
 14949 *Tournefortia obscura*
 14950 *Psychotria*
 14951 *Schizolobium*
 14952 *Lasiacis*
 14953 *Eupatorium odoratum*
 14954 *Pitcairnia*
 14955 *Martynia*
 14956 *Stigmaphyllon*
 14957 *Bignonia*
 14958 *Passiflora maliformis*
 14959 (rub.)
 14960 *Eupatorium*
 14961 *Psychotria*
 14962 *Piper*
 14963 *Passiflora cuspida*
 14964 *Lioscorea*
 14965 *Iponmea*
 14966 *Iponmea polyantha*
 14967 *Eupatorium*
 14968 *Warszewicziana*
 14969 *Passiflora scourense*
 14970 *Passiflora coriacea*
 14971 *Bauhinia*
 14972 *Asangelos*
 14973 *Mittonia*
 14974 *Lindsaya*
 14975 *Passiflora palala*
 14976 (melast.)
 14977 *Mikania*
 14978 *Bauhinia*
 14979 *Sanchezia*
 14980 *Eclides*

- S. 4-7'
 T
 S. 3-4'
 S. 3-5'
 V. herb.
 V. herb.
 S. with herb. F. bracts gr. tipped.
 S. bran. F. cor. olive w.
 H. acaulescent p. ~~outer~~ per. sig. - cor. r.
 F. pet. y.
 F. cor. w.
 F.
 F. bracts w.
 S. 4-6'
 T
 S. few-bran.
 S. 5-8'
 V. herb.
 V. herb.
 V. herb.
 V. herb.
 H. 2-3'
 S. 10-15'
 V. herb.
 V. herb.
 S. low
 V. herb.
 S. ~~gr.~~
 F. ~~gr.~~
 V. herb.
 S. 2-3'
 V. herb.
 T. 10-15'
 S. 5-8'
 V. herb.
- F. cor. w.
 F. pet. yellowish w.
 F. branches of infl. p. cal. light r. cor. r. junc.
 pet. green
 Flavon purple.
 F. cor. olive w.
 H. acaulescent p. ~~outer~~ per. sig. - cor. r.
 F. pet. y.
 F. cor. w.
 F.
 F. bracts w.
 bracts tipped with dark
 infl. not opened.
 F. per greenish
 cor. w.
 F. cor. y.
 bracts gr. tipped
 cor. & sta. bl. purp.
 bracts bright r.
 F. cor. y. sta. purp.
 F. ~~dark~~
 F. sep. gr. ant gr. y.
 F. pet. y.
 F. 9-y.
 F. bracts gr. w.
 F. pet. p. prox. paler dist
 elsewhere.
 F. cor. pale y.

Rec. 4. thickets along trail bet. Mar. & El. Tama.

y. dist, becoming r. throughout

conaceous, gr. y.

9.

Spec. 5 on rocky banks.
 thickets between Las Palmas & Rio
 Tebija

Rec. 6 Tinba
 Rec. 9 Park
 Rec. 11 between Pied. & La Encay - roadside thicket

Buc.
 Buc.
 Buc.

Ph. 2-5

14981 *Euphorbia*
14982 *Calliandra*
14983 *Clematis*
14984 *Eugenia attenuata*
14985 (rub.)
14986 *Agave*
14987 *Wedelia trinervia*
14988 *Phoradendron*
14989 *Palicourea*
14990 *Lauritia*
14991 *Securidaca*
14992 *Chusquea*
14993 *Tycooceris*
14994 *Alauranda*
14995 *Epidendrum*
14996 lichen
14997 *Hypencum*
14998 *Chelonanthus*
14999 *Sobralia*
15000 *Cordia divaricata*
15001 *Baffaria*
15002 *Bromilia*
15003 *Centropogon*
15004 *Tycopodium reflexum*
15005 *Cordia caracasana*
15006 *Viburnum*
15007 *Hyptis*
15008 *Miconia rugosissima*
15009 *Crotalaria*
15010 *Cecropia*
15011 *Anemone hirsuta*
15012 -moss.
15013 *Tradescantia*
15014 *Wedelia tribolata*
15015 *Passiflora trifolia*

V. somewhat woody f. pet. w.
 S. 10-20' f. sta. ~~rich~~ pink to red
 + woody f. style gr. w.
 T. 15-20' f. pet. w. ant. g.
 S. 6-8' f. cor. pale y.
 infl. to 20' h. leaves rosette,
 leaves to 5" br. 3' l. basal
 S. 4-5', bran. dvar. f. rays y.
 E. H. or S. on 14989
 T. 10-12' f. buds w.
 S. with scand. f. cor. pur. w. pt
 S. rays. 2-6' f. cen. Fr. o.
 V. woody. Fr. reddish p.
 V. woody.
 S. 6-8' bran. f. rays, cor. style. o.
 S. spread.
 T. 15-20' f. cor. y.
 H. f. 5 per. sec. r. o. lip. y. fr. prox.
 with 4 dark w. spots, dist.
 H. 1-3" f. y. f. cream w.
 H. f. except lip streaked at
 center with o. and y.
 S. 2-3' with much granular
 short rays forming rounded
 lvs. 5. 2-3'. f. cor. light p. to w.
 to. T. 10-12' f. terres.
 H. leaves to 2' l. spike to 3'
 S. 6-10' f. cor. r.
 f.
 S. lancled within 6" of base.
 S. rays. $\frac{3}{4}$ " diam. f. cor. w.
 T. 12-20' f. cor. w.
 H. coarse; 2-4" f. cor. w.
 H. I woody at base f. cor. w.
 H. woody at base f. pet. w.
 H. 1-3' base f. gut. prop.
 T. 30-40' f. glauw.
 T. ant-inhab.
 T. 25-30'
 F.
 On rocks
 succ. f. w.
 H. ~~succ.~~ f. rays y.
 V. herb. Fr. q.

Loc. 11. thickets roadside, bet. Pied & La Cruz. 1000
Mesa de los Santos,
northern slopes 1500

bedight y. q. out deeper in.
F. exposed banks
thickets

light o.r. exposed banks.
on rocky bank
exposed bank

crayw F. car.w.

thickets
among grass exposed bank
~~thickets~~

exposed bank.

~~thickets~~ open places
open places
rocky banks.

~~ticket~~.

15016	Bledium		F.	
15017	Centropogon	S. low	F. cor. r.	
15018	Nicoria parvula	H. 2-3'	F. pet. magenta	
15019	Centropogon	V. herb.	F. cor. r.	
15020	Eugenia janda	T. 20-35'	F. sta. w.	
15021	Rubus	V. woody	F. pet. w. Fr. black	
15022	Rapania	T. 15-30'		
15023	Bromelia variagata	H. leaves		
15024	Habenaria	H. mott. g. w. F. per. w.		
15025	Paspalum	H.		
15026	Piper	H. 3-5'		
15027	Adiantum fragile	S. 4-5'		
15028	Nicoria nitida	F. slender		
15029	Passiflora suberosa var.	S. 4-6'	F. sep. g. cor. bl. w.	
15030	Ilex bogotense	V. herb.		
15031	Syngonium	S. 5-10'	F. cor. w.	
15032	Cuphea	H.	F. beads w.	
15033	Antennaria	H.	F. pet. deep. purp. b.	
15034	Momiera	H.	F. cor. w.	
15035	Lindsaya	H.	F. cor. light b.	
15036	Polygala tenuella	F.		
15037	Liobren	H.	F. pet. p. b.	
15038	Utricularia	at rocks		
15039	Rhypopteris	H.	F. cor. y.	
15040	grass	F.		
15041	Pityrogramma	H.		
15042	algae	F.		
15043	Bontolonia	floating		
15044	Crotalaria	H.	F. y. faintly streaked	
15045	Eleocharis	H.	with r. pur. cat	
15046	Tibouchina	S. low;	F. pet. mag. deep.	
15047	Peperomia	H.		
15048	Centropogon	S. low.	F. cor. r.	
15049	Thibaudia	S. er lant.	F. cor. r. prox. grey.	
15050	Phyllodendron	H. terr.	F. spathe w. decamp.	
	"maya"			

"mayo"

Dec. 11 today bands
thickset Mesa de los Santos
northern slopes

roadside
thicket
roadside.

thicket
rocky banks.
thicket

- marshy soil

rocky bank
marshy soil
rocky banks.
marshy soil
rocky banks.
marshy soil
rocky banks
small pool
marshy soil
inside

thickset

on rock

Wickset
woak

R. Woods

dist. bucket woods
spadix w. woods

- 15051 Scleria
 15052 Leiorhynchus lactoma
 15053 Stenorrhynchus
 15054 Sabicea
 15055 Miconia rhombifolia
 15056 Sipoma
 15057 Polypodium
 15058 moss
 15059 moss
 15060 (rub.)
 15061 Piper
 15062 Miconia
 15063 Tibouchina
 15064 Psidium arauca
 15065 moss
 15066 hepatic
 15067 Tillandsia
 15068 Psychotria
 15069 Psychotria (rub.)
 15070 Solanum
 15071 Pherodendron
 15072 Miconia
 15073 Calopria
 15074 Jussiaea
 15075 Solanum
 15076 Monnieria
 15077 lichen
 15078 lichen
 15079 lichen
 15080 Hura
 15081 Miconia
 15082 Miconia ciliata
 15083 Kyllinga caespitosa
 15084 Nepliolepis
 15085 Ageratum

H.
 H. F. car. r. paler within
 H. ter. F. rachis, per. tube, + 5 per. er
 H. repeat Fr. b.
 S. 6-8' F. pet. w.
 S. few bracts F. cor. gr. y. dull
 F. flwg. repeat
 on rocks
 on soil
 T. 10-15'
 S. 6-10'
 S. or lat. 15' F. pet. w.
 S. 10-12' F. pet. magenta
 T. 10-15' F. pet. w.
 on fallen log.
 on tree trunk
 E. H.
 T. 15-20'
 T. 15-20' F. sepals r. cor. p. S. low.
 V. woody. F. pet. p. b.
 E. H.
 T. 15-30' F. pet cream w.
 T. 20-30' F. pet. light y.
 H. woody. F. pet. y.
 H. coarse F. cor. w. ant. y. tinged
 H. 2-4' F. cor. w. ant. y. tinged
 H. coarse, lower 2-7' F. pet. deep
 H. portion woody F. tip of
 on twigs
 on twigs
 T. 25-40' Fr. dull r. when
 S. 15-20' F. pet. w. stat. ant. y.
 S. 10-18' F. pet. light p.
 H. F. stat. + ant. dark p.
 F. heads w.
 F. cor. w. papery (?)
 gent. b.

Dec. 11. M. de los S. 4th slope.
 Woods
 on deep s.

roadside M. de los S. 1600
 thicket woods

roadside
 meseta de los Santos
 in open

15081
 15082
 15083
 15084
 15085

- 15086 *Clidemia*
 15087 *Marrubium*
 15088 *Cyathea*
 15089 *Cassia*
 15090 *Castilleja*
 15091 *Polygala* *Cypensis cayennensis*
 15092 moss
 15093 hepatic
 15094 *Lycopodium cernuum*
 15095 *Achyrocline*
 15096 *Tagetes pusilla*
 15097 *Verbesina*
 15098 lichen
 15099 *Clusia*
 15100 moss
 15101 *Meriania*
 15102 *Nyssurus*
 15103 lichen
 15104 *Hypericum thesioides*
 15105 *Weinmannia*
 15106 *Panicum*
 15107 *Typhochlora albocentra*
 15108 *Thibodia*
 15109 *Sicranopteris pectinata*
 15110 *Sicranopteris*
 15111 *Richardia*
 15112 *Paspalum unispikum*
 15113 *Mimosa*
 15114 *Solanum*
 15115 *Solanum*
 15116 *Randia*
 15117 *Polygonum*
 15118 *Mikania cordifolia*
 15119 *Juniperus* "Cipre"
 15120 *Baccharis*

H. coarse Fr. pur.
H. F. cor. law.
T. F. candel 4-12'
 { weak semi pro. S.
 { erect, flat topped crown 4' h.
H. 2-4' F. bracts at base 9-12'
H.
 on soil
 on soil
 F.
H. coarse F. heads gr. y.
H. 2-3' bran. gray gr.
H. F. rays light
F. rays y. styles brown
 upright on bare rocks
T 20-35' wide spread. crown
 trunk to branchless 5'
 on soil
H. F. pet. & fil. light p. b.
H.
 on soil
H. F. pet. y.
T 6-15' F. sta. w.
 trunk to 2" F.
H. 4-7' F. pet deep b. w. at base
S. 10-15' F. fil w. with b.
S. F. cor. r. pro. $\frac{1}{3}$ b.
F. F. style pale r. pro. purp. dist.
H. semi-succ. Fr. purew.
H. semi-pro.
H. woody 2-3' stem simple
S. 4-6' F. cor. w.
S. to 10' wide-
 spread bran. F. pet. light b.
T 10-15' F. cor. w.
H. slender. Fr. b.
H. F. w.
V. woody F. cor. ~~at apex~~. g. at apex
T. 50-70' F. cor. ~~at apex~~. g. at apex
S. 5-6' F. heads w.

Dec. 12 M. d. - S. Grassland

F. pet y.

S. semi pro. to
S. sub-erect. to 2½'

Edge of wds.

grassland.

1801
 1802
 1803
 1804
 1805
 1806
 1807
 1808
 1809
 1810
 1811
 1812
 1813
 1814
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 1817
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 P.P. 11
 P.N. 6 OI

- 15121 *Zornaria*
 15122 *Cleisia*
 15123 *Fuchsia*
 15124 *Thibertia*
 15125 *Hydrocotyle*
 15126 *Selidomantthus*
 15127 *Cassia*
 15128 *Vittaria*
 15129 *Lindsaya*
 15130 *Lindsaya*
 15131 *Anona*
 15132 (rub.)
 15133 *Selidomantthus*
 15134 *Laplaeina*
 15135 frugus
leptotic
15136 *Lophidium*
Cladonia
15139 *Xyris*
15140 *Rhynchospora globosa*
Ceratodon
15142 *Rhynchospora glauca*
15143 *Paspalum*
Piper
15145 *Polypodium tetrasporium*. —
15146 *Elaphoglossum*
15147 *Polypodium glaucifolium*
lichen
15149 *Oleandra*
15150 *Vittaria*
15151 *Psychotria*
15152 *Trichomanes*
15153 *Trichomanes* robustum Fourn. aff.
15154 *Dalicorina*
15155 *Sabicea*
- F.* spreading. Fr. small brox
T. 10-20'. S. 5-10'. tube & lobes.
F. cal. deep. g. brox red.
S. spread. *F.* set. fil. style ^.
S. 6-12'. *F.* ex. l. prox. P. w. ch.
H. repeat, upright
H. coarse. *F.* cor. p., tube shiny
S. 2-5', spread, *F.* pet. y.
S. bran. brox.
F. upright in soil
F.
F. 20-30'. *F.* sep. q.
S. 8-12'. *F.* cal. r. cor. p.
H. 10-20'. *H.* sapro. see 126
H. throughout
on decayed. soil
on tree trunk
F.
lichen on soil
H. *F.* pet. y.
H. subl. *F.* pet. w.
H.
H. 3'.
S.
F. at base of trees
F. at tree trunks
on tree trunks
F. dependent from
tree trunks & branches
S. 8-20'. Fr. g. b.
F. banks of small streams
F. " "
F. slender to. upright.
T. 15'. *F.* cor. long br.
S. 10-15'. spreading habit. Englot. r.

Dec. 12 M. de los S. woods

tube & lobes.
and q.
woods
in pool - marsh.
out. ~~q.~~ q. in, long, striped with w. woods

woods
— banks of stream

woods

marshy meadow

woods.

det. Windisch 1977

- 15156 *Jussiaea angustifolia*
 15157 moss
 15158 hepatic
 15159 moss
 15160 moss
 15161 moss
 15162 hepatic
 15163 *Cleidocarya*
 15164 *Miconia*
 15165 *Bowenia*
 15166 ~~Ilex~~ *Symplocos* A. pinnig sp. nov.
 15167 *Andropogon*
 15168 *Cuphea glabra*
 15169 *Olearia*
 15170 *Cratichneumon*
 15171 *Themiostoechia cordifolia*
 15172 *Littlerae*
 15173 *Juncus*
 15174 *Mikania*
 15175 *Fimbristylis*
 15176 *Digitaria*
 15177 *Cyperus*
 15178 *Sporobolus*
 15179 *Hathalia* *Turionia*
 15180 *Cassia*
 15181 *Chaptalia*
 15182 moss
 15183 lichen
 15184 lichen
 15185 hepatic
 15186 lichen
 15187 *Ilex*
 15188 *Mikania*
 15189 *Eupatorium*
 15190 *Xyris*
- S. few-bran. F. pet. t.
 on tree trunk
 around decaying twigs
 on wet bank
 on soil
 on decaying wood
 on decaying wood
 S. 4-6' F. pet. bl. p.
 H. suff. or woody F. pet. bran. w. to pale b.
 H. pros. F. cor. w.
 S. 5-7' F. pet. w.
 H.
 H. woody. F. pet. w.
 F.
 H. sub-scap., clumpig, among rocks.
 H. woody, bran. at fl. cor. light
 T. 15-20' F. pet. yellowish
 H. woody F. pappus w.
 H.
 H.
 H.
 H.
 S. 1-3' F. pet. y.
 T. 12-20' F. pet. y.
 H. F. pappus w.
 on soil
 on rocks
 on rocks
 on moist bank.
 on rocks
 S. 10-12' F. pet. w.
 V. herb. F. cor. bluish w.
 H. *woody F. pet. purp. styl. strig. g.
 H. at base F. pappus pale b.
 H. F. pet. y.

Dec. 12 M. de los S. woods

in crevices of bare rocks

thicket

wet meadow

cov. bare rocks.

M. de los S. in open

woods.

leaves silky beneath open.

wet marsh

thicket

wet marsh

M. de los S.

marshy land

15191	<i>Verbisina</i>	S. 6-8' crown compact, F. rays bright rounded,
15192	<i>Aristida</i>	H.
15193	<i>Panicum</i>	H.
15194	<i>Scleria luteola</i>	H. woody
15195	<i>Metastelma</i>	V. woody F cor. w. H. bracts w. at base
15196	<i>Lichromenea</i>	H. T. 12-15' F buds w. T. I. woody F. fr. purple deep
15197	<i>Mikania</i>	H. 2-4' H. 2-4' I. woody, bran. at woody, bran. at H. base, bran semi-purp. F. cor. V. + woody F. papillae w. sta. w.
15198	<i>Eupatorium</i>	S. 4-7' S. caudex to 2' l. F. semi-purp.
15199	<i>Centropogon</i>	F.
15200	<i>Milsomia</i>	F.
15201	<i>Eupatorium</i>	on soil
15202	<i>Oxopliaga</i>	among twigs
15203	<i>Trichomanes</i>	E. H. in basket of Long 2-5 ft.
15204	<i>Nephrolepis</i>	H.
15205	moss	among twigs
15206	hepatic	on wet banks.
15207	<i>Bromelia</i>	on wet bank.
15208	<i>Peperomia</i>	on rocks
15209	moss	S. 6-9' bran. F. papillae w.
15210	moss	spreading
15211	<i>Sellaginella</i>	H. F. sepal & lip salver. 9. important middle "crest" Y. q. above, purp. at apex
15212	Lichen	H. F. column of bracts, deep p. Y. q. above, purp. at apex
15213	<i>Eupatorium</i>	H. F. column salver. Y. q. above, purp. at apex
15214	<i>Epidendron</i>	H. F. act. + fil. ridg. Y. q.
15215	<i>Epidendron</i>	S. 5-8' stem ant. Y. q.
15216	<i>Tibouchina</i>	S. erect, simple, 2" diam.
15217	(acanth)	H.
15218	<i>Panicum</i>	H.
15219	<i>Malaxis</i>	S. 5-7' stem, leafy at summit F. sup. pt. q. y.
15220	(rub.)	on rocks
15221	Lichen	on rocks
15222	Lichen	H. gone basal.
15223	<i>Revialema</i>	H.
15224	<i>Scleria</i>	T. 15-20' bran. droop.
15225	<i>Eurya</i>	

Dec. 12 M. de los S.
rocky crevices
Mesa

ca. w. light p.p. at margin
style light purp.

rocky ledge.

det. A. Lindner 1977

woods

Mesa
exposed rocks

exposed rocks

rocky cliffs
exposed rocks

rocky cliff

P.P. & NG

thicket
exp. rocks
Mesa

P. A. O. C

- 15226 *Eupatorium*
15227 *Passiflora ligularis*
15228 *Amsinckia*
15229 *Stenophyllum*
15230 *Syntierrezia purpurea*
15231 (rub.)
15232 *Lecourea*
15233 *Tibouchina*
15234 *Anstida*
15235 *Fimbristylis*
15236 *Paspalum paniculatum*
15237 *Juncus*
15238 *Oryza*
15239 *Juncus*
15240 *Liveraria*
15241 *Eragrostis purpurea*
15242 *Rypicospora*
15243 *Boronia*
15244 (euphrab.)
15245 *Mikania*
15246 *Pallionia*
15247 moss.
15248 *Dryopteris*
15249 *Gudroboogu*
15250 *Polygala leptocephala*
15251 *Spernococe*
15252 moss
15253 moss
15254 *Guzmania purpureum*
15255 *Sonchus*
15256 *Hypoxis*
15257 *Vittaria*
15258 *Sabicea*
15259 *Solanum*
15260 (rub.)

Dec 13 Mesa
light y. g. out vr. in.
filled with vr. & deep to light p. under scrub with few tress thicket
dry prairie grassland.

marshy meadow
woods

meadow
marshy meadow
~~to~~ open meadow

dry meadows

rich wet soil at edge of woods
woods

Dense
Fr. bright b.
F. cor. pale v.

- 15261 *Pleurothallis*
 15262 *Epidendron longiflora*
 15263 *Anthurium lorifolium*
 15264 *Piper*
 15265 *Piper*
 15266 *Miconia albida*
 15267 *Anthurium*
 15268 *Stelis*
 15269 *Stelis*
 15270 *Malaxis*
 15271 *Vittaria*
 15272 *Polyodium* (lanceolatum-type)
 15273 *Miconia*
 15274 *Miconia*
 15275 *Psychotria*
 15276 (mb.)
 15277 *Canna*
 15278 *Pleurothallis*
 15279 *Meriania*
 15280 *Xyris*
 15281 *Lycopodium*
 15282 *Polygala ruviana*
 15283 *Crotalaria*
 15284 *Melastoma*
 15285 *Claphioglossum*
 15286 *Palicourea*
 15287 *Lichaea lycopodioides*
 15288 *Plylodenrae*
 15289
 15290 *Ocotea*
 15291 *Bromelia*
 15292 *Peperomia*
 15293
 15294 (~~elat.~~) *Ficus*
 15295 *Miconia*

E.H.
 E.H.
 H. at base of spath r. pur.
 H. trees
 S. stem simple, straight
 stem erect simple 120" h.
 T. leafy upper 1/3
 S. bran. & stem slender
 H. terr. at base of tree
 E.H. F. esp. sep. g. w. with
 E.H.
 E.H. F. sep. deep. rose
 F. column. Y.
 F. on twigs and branches,
 F. drooping
 F. climbing on tree trunk
 slender
 T. 12-15'
 15' or more with
 T. short bran.
 T. 12-15'
 T. 25-30' Fr. black.
 F. infl. droop.
 H. coarse Infl. r.
 E.H.
 H. F. pet. pale lila
 H. F. tan cream
 H. F. grey
 F. in soil long bran. erect,
 H. F. pet. P.
 S. 6-12' few-bran.
 T. 10-20' F. pet. mag. sta. w.
 F. on tree
 T. 15-20' F. gray. infl. pur.
 T. cor. light b.
 E.H.
 H. scaly climbing spathes
 H. up tree trunk
 T. 35-50'
 T. (fallen) infl. deep. p.
 E.H.
 H.
 (h.?) prob. tall.
 T. 25-35'
 T. 30-30'

Dec 13. Woods Mesa
 with weak divar. bran. at summit
 spines to ~~10~~. 2' l.
 spathes w.
 deep pur. spots
 also at wet meadow
 numerous short bran.
 flat on ground.
 Woods, edge
 at centre dense woods
 streaked & blotched with red ant.
 in pros. dust w.

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15296	<i>Quercus</i>	"rosinogal"	T. tall, fallen F. climbing at tree trunks	Dec. 13 dense woods	Mesa
15297	<i>Poly podium</i>		H. $1\frac{1}{2}$ ' F. stems dark.		
15298	<i>Begonia</i>	"guaco"	H. heads silvery grey	palp. marshy land	
15299	<i>Pae polautius</i>		H. succ. F. per. deep. b.		
15300	<i>Cannulina</i>		H. F. cor. w.		
15301	<i>Hyptis angustifolia</i>		H. F. pet. w. fragaceon		
15302	Th <i>Torientalis</i>		H. woody F. pet. pale lilac.		
15303	<i>Meriania</i>		at wet log.		
15304		hepatic	among roots of 15270		
15305		hepatic	on decayed log.		
15306		moss	H. F. cor. deep b.		
15307	<i>Ligularia</i>		H. F. cor. deep b.	dry prairie	
15308	<i>Browallia</i>		H. corolla erect 2'h.	meadow	
-15309	<i>Alsophila</i>		F. stipe $1\frac{1}{2}$ ' fr. 4'	Dec. 14 Mesa	
15310	<i>Trichomanes crispum</i> L.		F. in shade	exposed rocks (det. Windisch 1917) Mesa	
15311	<i>Elaphoglossum</i>		F. rock crevices		
15312	<i>Platodendron</i>		F.	woods	
15313	(juncaceae)	palm	E. H. or S.		
15314		(rub.)	H. aculecent F. cor. y.		
15315	<i>Peperomia</i>		P. trunk 20' smooth		
15316	<i>Masdevallia</i>		P. with rings leaves 4-5'		
15317	<i>Erythrodes variegata</i>		T. slender Fr. dark.	13 pairs of leaflets (this spec.)	
15318	<i>Liparis</i>		H. sp.		
15319	<i>Passiflora</i>		E. H. F. sep. light salmon p.		
15320	<i>Ricciaea</i>		E. H. lip reddish p.		
15321	<i>Ricciaea</i>		H. terr. leaves dark green above		
15322	<i>Bactris</i>		H. with pale green at center and similar		
15323	<i>Peperomia</i>		H. terr. Fr. light green		
15324	<i>palm</i>		V. herb		
15325	<i>Bromelia</i>		H. on decaying log		
15326			H. on decaying log		
15327	<i>Trichomanes</i>		P. trunk spiny 2-3" diam.		
15328	orcid		P. 6-12" diam. leaves 6-8'		
15329	moss		H. repeat on		
15330	hepatic		P. trunk 1-2'h fr. 7-10'		

- 15331 lichen
 15332 moss
 15333 hepatic
 15334 Trichomanes
 (jusuer.)
 15336 palm
 15337 Tindaya
 15338 Alsophila
 15339 Elaphoglossum
 15340 Polypodium
 15341 Polybotrya
 15342 Trichomanes
 15343 moss
 15344 Polypodium deale
 15345 Peperomia
 15346 Dicranthus
 15347 lichen
 15348 lichen
 15349 lichen
 15350 leaf rust
 15351 lichen
 15352 lichen
 15353 lichen
 15354 (clus.)
 15355 Blechnum foeniculum
 15356 Polypodium
 (rub.)
 15358 Trichomanes
 15359 Sphagnum
 15360 hepatic
 15361 hepatic
 15362 Verbisina
 15363 Piper
 15364 Passiflora
 (rub.) Policonvicia
- on decaying wood
 on decaying wood
 on decaying wood
 F. on decaying wood
 H. chunky on tree trunk.
 P. trunk 8-10' 4-6" diam. Fr. dark.
 L. leaves 3-5'
 F. in crevices of rock
 T. F. trunk 6-10' 2-4" diam.
 T. F. trunk 2½-3½'
 F. under projecting rock. Fr. appearing b. in shade
 F. in crevices
 F. stem appressed to tree trunks
 F. upper 1 or 2 fr. fertile.
 F. on wet banks.
 wet banks.
 Fr. wet banks, also rocky crev.
 H.
 H.
 on rocks
 on rocks
 on rocks
 on 15217?
 on rocks
 on rocks
 on rocks
 T. 12-20' Fr. depressed globose 1-2'
 F. on tree trunk
 F. fallen. F. cal. y. q. redish brown
 T. of tall
 F. dependent from branches
 on moist banks
 on tree trunk
 on tree trunk
 S. 5-8' F. rays y. sta. & styles y.
 S. 5-7' F. rays y. cor. n. brown
 V. herb. (this spec. juv.)
 S. F. cal. n. p.

Dec. 1914 woods

Mesa.

rocky places
exposed bank
exposed rocks
woods

exposed rocks

woods

edge of woods

- 15366 *Verbisina*
 15367
 15368 *Mendoncia*
 15369 *hepatic*
 15370 *Epidendron*
 15371 *Bromellia*
 15372 (rib.)
 15373 *Solanum*
 15374 *Venomia*
 15375 *Centropogon*
 15376 *Cordia ferruginea*
 15377 *Elephantopus*
 15378 *Oreopanax*
 15379 *Piper*
 15380 *Dioscorea*
 15381 *Dryopteris*
 15382 *Ichnanthus*
 15383 (bamboo)
 15384 *Eupatorium*
 15385 *Aegrotaea*
 15386 *Hypoxis*
 15387 *Cornuclavia*
 15388 *Triunfetta*
 15389 *Thalesia*
 15390 *Phyllanthus*
 15391 moss.
 15392 *Palicourea*
 15393 moss
 15394 (anacard.)
 15395 *Exococca*
 15396 *Rubrum hypocrateum*
 15397 moss
 15398 (cusp.)
 15399 *Arenaria lanuginosa*
 15400 *Meibomia*

S. 7-10' F rays cor. br. r. styles deep
 growing out of trunk of large tree
 v. woody bracts r.p.
 on tree trunks E. H. of 15371 F. columnar, lip w. per. at base
 T. 20-30' crown F. pet. p.w. v. at base
 l. bran. 3-4' l. bran. 3-4' F. cor. g. y.
 S. stem bran. F. cor. gr. out
 S. 7-10' bran. F. y.p. in. out. invol. g. cor. long styles r.p.
 S. stem, elong. l. l. F. pap. w.
 S. 2-4' F. cor. p.
 S. 4-6' F. cor. gr. w.
 H. F. heads light p.
 T. 10-15' erect 3-4" diam. S. 8-10'
 l. stem simple, l. leaves stiff at summit, resembling papaya
 V. woody Fr. olive g.
 F.
 H.
 V. herb.
 S. 6-9' F. uniol. engl. g.
 H. lax F. cor. light p. moist.
 H. repeat F. with deeper. on
 H. woody at F. cor. w.
 H. base F. pet. o.y.
 H. 5-7' F. r.
 H. slender F. pet. w.
 on soil T. 10-12' bran.
 T. slender, droop. Fr. dark. g.
 on decaying wood
 T. 15-20' F. pet. p.
 V. herb. F. cor. gr. y.
 V. herb. Fr. o.
 on moist soil H. coarse F. bracts per.
 H. 4-10' F. cor. grass g. pap.
 H. slender, with H. semi-prost. dense F. pet. w.
 H. semi-prost. dense F. pet. deep. b.
 H. sub-scap. F. pet. deep. b.

Dec. 14 edge of woods Woods Mesa
 northern slopes of Mesa Open P.P.3
 Woods - n. slopes Mesa
 lobes within n. slopes - Mesa
 moist soil, edge of woods
 n. slopes. Mesa
 woods - n. slopes

F. cor. cream
 n. slopes
 in dripping water, n. slopes
 styles grass g.

- 15401 Croton
 15402 Eugenia "aroyana"
 15403 Cassia
 15404 Hyptis
 15405 Dracaena
 15406 orchid
 15407 Polypodium lance (type)
⁷ 15408 Lantana
 15409 Venonica
 15410 Verbascina
 15411 Nicocaria
 15412 Solanum ayurea
 15413 Lantana
 15414 Eupatorium
 15415 Cassia
 15416 (comp.)
 15417 Eupatorium
 15418 Matricaria
 15419 Cassia
 15420 Croton "masquero"
 15421 Piper
 15422 Hyptis
 15423 Bacharis trinervia
 15424 Equisetum giganteum "caña de caballo"
 15425 Mimosa
 15426 Indigofera
 15427 Nicocaria
 15428 Pleurolobus "clausa" "tote"
 15429 Eupatorium
 15430 Clusia
 15431 Bradberia (rub.)
 15432 Zygophyllum
 15433 ~~Zygophyllum~~
 15434 Evolvulus
 15435 Escobedia "asopru"

S. ^{3-8'} slender F. pet. w.
 12-15' F. bracts p.
 T. S. 8-10' F. pet. y.
 H. 2-3' F. cor. mag. b.
 T. 25-30' F.
 H. terr. leaves pern. beneath Fr. q.
 rhizome repeat F. on rocks
 S. 8-10' F. cor. w. fl. droop.
 S. 4-7' F. cor. t. pappus w.
 T. 12-15' F. ~~pappus~~ b.
 S. 3-5' F. pet. sta. styles w.
 T. or S. 3-5' F. stigma q.
 straggling F. cor. short.
 S. 4-6' F. antr. y.
 woody at F. cor. w.
 H. base 2-3' F. invol. q. with r. viol.
 T. 8-12' F. hairs at apex.
 F. pet. y.
 S. 3-8' F. Y.
 H. coarse F. invol. light q.
 S. 10' F. cor. p. styles w.
 S. 3-4' F. rays w. stig.
 viscous F. cor. pinkish
 7-10' F. pet. y.
 S. 6-8' F. pet. w.
 S. 12-20' F. cor. cream
 coarse stem F. cor. quadrangular
 H. 5-8' F. invol. q.
 to 8' F. cor. gr. w.
 F. pet. p. prox. r. dist.
 H. 2-3' F. sta. w. prox. b. p. dist.
 S. 5-7' F. pet. p.
 T. 12-20' leaf F. pet. w.
 blades recurved from base to apex
 V. woody F. stan. wings pern. keel q.
 V. woody F. invol. bright q.
 T. 12-20' F. cor. t. pap. y. q.
 F. pet. w.
 V. herb. F. stan. p. purple dark
 S. 6-8' F. purple stripe near
 center. purple at center
 S. or small T. F. pet. gr. w.
 V. turning F. cor. light b.
 V. herb. F. cor. dicolor.
 H. stiff F. cor. w.

Dec. 14 slopes, n - Mesa

woods

dense forest floor - Mesa

Mesa

Dec. 15 in garden - Mesa

n. slopes - Mesa

or. pale p, r. viol. at apex

wings p. purple, also keel
center. purple at center

"Roots used for yellow
coloring matter"

15401
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|-------|----------------------------------|-----------------------|---|---|
| 15436 | <i>Trixis</i> | (common at this alt.) | <i>S.</i> 2-5' | <i>F.</i> univg. rays gold. y. |
| 15437 | <i>Glicicidia sepium</i> | | <i>I.</i> with erect leafy branches. 6-12' | <i>F.</i> cor. o.y. pet. p. |
| 15438 | <i>Serjania</i> | | <i>V.</i> woody | <i>F.</i> pet. w. |
| 15439 | <i>Luggenia</i> | | <i>S.</i> 5-7' with droop. | <i>F.</i> cor. w. |
| 15440 | <i>Ipomea</i> | | <i>S.</i> flowering bran. | <i>F.</i> cor. p., paler prox. |
| 15441 | (comp.) | | <i>I.</i> herb. | <i>F.</i> cor. light q. |
| 15442 | <i>Vernonia</i> | | <i>H.</i> 5-8' | <i>F.</i> styles purp. |
| 15443 | <i>Cosmos</i> | "mapola" | <i>H.</i> 4-6" | <i>F.</i> univg. q. cor. palp. pappus w. |
| 15444 | <i>Vernonia</i> | | <i>H.</i> 3-5' | <i>F.</i> rays deep, cor. gr. with golden lobes |
| 15445 | <i>Piper</i> | | <i>S.</i> 5-7' | <i>F.</i> cor. + pappus w. |
| 15446 | <i>Epidendron</i> | "avil" | <i>S.</i> 4-6' | |
| 15447 | <i>B. Paclura</i> | | <i>E.H.</i> on wall. | <i>F.</i> esp. deep purp. |
| 15448 | | "plantanilla" | <i>T.</i> ^{35-50'} in cemetery | <i>F.</i> esp. deep p. |
| 15449 | <i>Hedicium</i> | <i>Canna</i> | <i>H.</i> 20-30' | <i>F.</i> sep. light r. |
| 15450 | <i>Solanum</i> | | <i>T.</i> " | <i>F.</i> pet. deep r. |
| 15451 | | | <i>T.</i> 50-60', spread. | <i>F.</i> cor. w. ait. y. |
| 15452 | (sub.) | "almeudo" | <i>T.</i> bran. | |
| 15453 | <i>Passiflora quadrangularis</i> | "aro blanco" | <i>T.</i> 10-12' | |
| 15454 | <i>Passiflora pallida</i> | | <i>V.</i> herb. F. bracts light q. esp. light q. out. | |
| 15455 | <i>Struthiopteris</i> | | <i>V.</i> herb. F. same-spotted in outer fil. | |
| 15456 | <i>Suriarax</i> | | <i>V.</i> herb. F. ^{upper fil. light q.} sep. dark q. out. w. margin | |
| 15457 | | "grayava del no" | <i>H.</i> par. dependent | |
| 15458 | | | <i>H.</i> from trees | |
| 15459 | <i>Mimosa</i> | | | |
| 15460 | (comp.) | | <i>T.</i> 10-12' trunk 6" diam. F. sta. q. | |
| 15461 | <i>Baccharis</i> | | <i>T.</i> straight 2 way, flat topped | |
| 15462 | <i>Begonia</i> | | <i>S.</i> a large tree F. rays w. styles - | |
| 15463 | <i>Eugenia</i> | | <i>S.</i> 6-10" trunk to 2" diam. F. cor. w. | |
| 15464 | <i>Mimosa</i> | | <i>F.</i> infl. w. | |
| 15465 | <i>Cavendishia</i> | | <i>S.</i> 2-5' bran. | <i>F.</i> cor. mag. p. |
| 15466 | <i>Biophytum</i> | | <i>S.</i> scand. | <i>F.</i> pet. w. sta. y. |
| 15467 | <i>Tibouchina</i> | | <i>T.</i> 6-10' S. | |
| 15468 | (comp.) | | <i>D.</i> somewhat | <i>F.</i> sta. p. |
| 15469 | <i>Ectelia</i> | | <i>H.</i> woody, 3-6' | |
| 15470 | <i>Malvastrum</i> | | <i>S.</i> 4-8' | <i>F.</i> cor. light p. |
| 15471 | <i>Euphorbia</i> | | <i>H.</i> | <i>F.</i> pet. p. |
| | | | <i>H.</i> coarse | <i>F.</i> pet. deep mag. |
| | | | <i>S.</i> 2-4', bran. | <i>F.</i> rays w. |
| | | | <i>S.</i> spread | <i>F.</i> flowers gold. y. |
| | | | <i>V.</i> herb. | <i>F.</i> cor. y. |
| | | | <i>S.</i> 3-5' | <i>F.</i> pet. light p. |
| | | | <i>H.</i> pros. | <i>F.</i> pet. w. |

Dec. 15 n. slopes - Mesa

~~thickets~~ southward from Piedecuesta

980

styles deep pen

sphen. p. green tipped in.
column q.-y. at apex Piedcuesta
16 Bucaramanga

Dec. 16. Updeep r. o. t. r. spotted in garden - Buc.
Dec. 17 in yard Buc.

Dec. 11 in yard
Dec. 18 Bucaramanga

~~purple dark green~~

densely deep-rose spotted in. pet w. out. less densely
r. + w. striped prox. b. + w. dist. green + styles y. g. pern. dotted.
w. in. pet w. p. at margin. as long as sepals. Fil. g. prox.
green g. Styles pern.

19
Dec. 28 Dudecuesta
dark p. between Pied. + Vegas
Open hillside.

Dec. 16 crevices of tiles in patio Buc

15471	<i>Castilleja</i>	H. 1-3' ^{tarod.} T.	F. bracts light r. F. pet. w.	Dec. 20 between Pied. & Vegas
15472	<i>Myrcia</i>	H. 15-20'	F. per. seg. bright r. F. lip. & column. br. y.	becoming r.
15473	<i>Epidendron</i>	H. to 3'	F. infl. g. w.	
15474	<i>Aechmea</i>	S. to 3'	F. cor. lilac	
15475	<i>Tantara</i>	'25-30'	F.	
15476	<i>Ficus</i>	T.		2000- 2100
15477	<i>Calliantha</i>	T. elev. dwarf. "grano"	F. sta. w.	
15478	<i>Micromia</i>	V. woody	F. rays w. cor. g. out. w. in	
15479	<i>Phoradendron</i>	E.S. "caopia," sweet tree on M. de los		
15480	<i>Cuteregar</i>	V. woody	F. cor. bright p.	
15481	<i>Nicoria</i>	T. slender	F. pet. w.	
15482	(sub.)	S. 6-8'	F. cor. pinkish r.	
15483	<i>Viola</i>	H.	F. pet. light vio. in	
15484	<i>Zellaguella</i>	F.	F. lip b.-streaked prov. in	on wet banks
15485	<i>Carex</i>	H.		
15486	<i>Fischereia</i>	H.	F. cor. gr. w.	
15487	grass.	H.		
15488	<i>Isotoma</i>	H. sub. scand.		
15489	<i>Syopteris</i>	H.	F. cor. bright p. out.	
15490	<i>Lomaria</i>	F.	F. y. mott with r. in. F. r.	
15491	<i>Lycopodium cernuum</i>	F.		
15492	<i>Canua</i>	H. coarse 6-8'	F. per. br. r.	
15493	<i>Bilhia</i>	H. leaves 10-12'	subl. depend. 3/2 l. bracts	woods bet. P-V.
15494	<i>Paspalum</i>	H.	bracts bright r. per. light p.	
15495	<i>Rebunium</i>	V.	F. o. r.	woods
15496	leptale	on soil		most banks
15497	<i>Lycopodium</i>	F.		
15498	<i>Piper</i>	S. 6-8'		
15499	<i>Scleropeltis</i> <i>Hesleria</i>	H. repeat		
15500	<i>Lichonia</i>	H. repeat		
15501	<i>Meibomia</i>	V. leaf. F. pet. b.		
15502	<i>Peperomia</i>	H. repeat		
15503	<i>Bomarea</i>	V. leaf. F. unsp. seg. mat. out		
15504	<i>Dalicouraea</i>	V. 6-8' F. glaucous. green. 1/2 l.		
15505	<i>Cordia floribunda</i>	S. 4-6' F. cor. r.		
		S. 4-6' F. cor. w.		

15506	Passiflora
15507	Vernonia
15508	Polypodium
15509	Piper
15510	Erythrina
15511	Ipomea
15512	Ipomea
15513	Solanum
15514	Acalypha
15515	Momordica
15516	Piper
15517	Tibouchina
15518	T. (titia)
15519	Polygala
15520	Oxalis berlieri
15521	Phaseolus
15522	Saussus australis
15523	Cheloneanthus
15524	Baccharis
15525	Zorarea
15526	Solanum
15527	Eupatorium
15528	Hypericum
15529	Polynuria
15530	Escobedia
15531	Polynuria
15532	Filolia ^{Genus 621}
15533	Momordica
15534	Phytolaca
15535	Asperus
15536	Browallia
15537	Erechtites
15538	Arinacea
15539	grass
15540	Scrophularia

"cordancilla"

"esofranc"

at
Tropaeolum

"guava"

"guava"

Dec. 19
n. outer fil (as sheet) Dec. 20 thicket bet. P.-V. 2000-
roadside 2100

thicket

roadside

2000-
2100

四

三九

74

17

100

7

4

5

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2

~~open banks~~
thicket
roadsides
~~open banks~~
thicket

roadside
thicket

at the
roadsides

- 15541 *Pilea*
 15542 *Cypera rotunda*
 15543 *Siegesbeckia*
 15544 *Solanum*
 15545 *Sidrys*
 15546 moss
 15547 hepatic
 15548 (march. hep.)
 15549 (march. hep.)
 15550 (fern).
 15551 *Selaginella diffusa* (L.) Gray
 15552 *Peperomia*
 15553
 15554 *Solanum*
 15555 *Dryopteris*
 15556 *Asplenium*
 15557 *Bocconia*
 15558 *Lipaygium*
 15559 *Pilea*
 15560 *Sibthorpia*
 15561 hepatic
 15562 moss
 15563 moss
 -15564 (anthoc. hep.)
 15565 moss
 15566 *Polytrichum* (moss)
 15567 *Rubus*
 15568 *Momaria*
 15569 *Solanum*
 15570 *Habenaria*
 15571 (orchid)
 15572 (orchid)
 15573 *Asplenium*
 15574 *Valeriana*
 15575 *Momaria*

- H. succ. repent
 H. at base
 H.
 H. 6-8'
 S. 6-8'
 V. herb.
 on soil
 on soil
 on soil
 on soil
 F. deep 1/4 high,
 F. dark at apex
 F. repent at base
 S. low
 S. 6-10'
 F. cor. w.
 F. cor. w. ant. y. at
 base, paler dist.
 F.
 F.
 T. 10-15'
 F. succ.
 H. repent
 on soil
 V. woody
 H. 3-5'
 S. slender
 H. terr.
 H. terr.
 E.H.
 H. tr.
 H. tr.
 S.

Dec 20 wooded banks. bet. P. + U.

sandy bank.
moist bank.

woods
moist bank
wet forest soil
thickets

woods
wet forested gully
thicket
w. f. gully

moist banks.

roadside
thicket

roadside banks

Up. 4 deep r. dots at cent. n. spot. down,
Column w. r. at apex woods
Open hillside
Dec. 20 Woods ~~at apapao~~
~~bet. Oegas~~

- 15576 *Passiflora quadrangularis*
 15577 *Rubus*
 15578 *Bauera*
 15579 *Centropogon*
 15580 *Calceolaria*
 15581 *Centropogon*
 15582 *Calceolaria angustifolia*
 15583 *Myosotis*
 15584 *Alouatta*
 15585 *Castilleja*
 15586 *Berberis*
 15587 *Bomarea*
 15588 *Agrostis*
 15589 *Bromus*
 15590 *Hydrocotyle*
 15591 *Agrostis minor*
 15592 *Geranium*
 15593 *Bidens*
 15594 *Anemone*
 15595 *Cardamine*
 15596 *Montia*
 15597 *Siegesbeckia*
 15598 *Oxalis*
 15599 *Ranunculus*
 15600 *Urtica*
 15601 *Castilleja*
 15602 *Melastoma crassiflora*
 15603 *Lycopodium*
 15604 *Selinia*
 15605 *Bartsia*
 15606 *(orchid)*
 15607 *Polyphodium*
 15608 *Piperomea*
 15609 *Ceratium*
 15610 *Fuschia*

- V. herb. F. tube g. out. w. in.
 V. woody F. corona w.
 V. herb F. pet. p.
 V. herb F. outer seg. p. - pun.
 V. woody F. inner y. dist. q.
 H. 2-4' F. cor. Y.
 S. elong. F. cor. o. r.
 S. bran. 2-5' F. cor. Y.
 S. H. F. cor. long at b.
 H. F. y. at cleft.
 H. "6-15" F. cor. o. r. sta. br. y.
 H. woody below F. bracts r.
 F. cor. o.
 F. pet. y.
 V. herb. F. outer seg. y.
 H. F. inner & gl. y.
 H. repeat
 H. ~~raceme~~ bran. repeat.
 H. F. ~~sp.~~ cor. y.
 H. coarse F. ~~sp.~~ r. y.
 H. to 5' F. ~~sp.~~ r. y.
 H. weak F. cor. ~~sp.~~ ant. y.
 H. weak. F. pet. o.
 H. succ. F. cor. Y.
 H. succ. F. cor. Y.
 H. matted F. sep. Y.
 H. stem erect
 H. F. bracts
 H. 6-12' F. cor. yellowish.
 T. 6-12' F. pet. deep. r.
 H. mat. up. F. cor. w.
 H. ~~mat.~~ soil F. cor. w.
 H. stem F. cor. deep purp.
 H. succ. F. w. at base
 H. bran. at base F. cor. p. y.
 H. stems erect F. pet. p. dist.
 E. H.
 F.
 E. H. succ.
 H.
 B. F. tube p. r. out.

Dec. 20 woods far above, Vegas

exposed hillside
w.
e. li.

w. spotted ant. prop. w.
paramillo

far. Vegas

3000-
3300

"

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3300-
3700

15611 *Ophioglossum*
15612 *Pomaria*
15613 *Sphaeralium*
15614 *Ceratium willdenowii*
15615 *Sphaeralium speciatum*
15616 *Hypericum "romero"*
15617 *Hypericum*
15618 *Cyperaceae*) *Ayrella*
15619 *Bovlesia*
15620 *Alchemilla trifida*
15621 *Alchemilla hispida*
15622 *Alchemilla pinnata*
15623 *Acaena elongata*
15624 *Acaena cylindristachya*
15625 *Sphaeralium*
15626 *Paeonia*
15627 *Aegopodium*
15628 *Asplenium*
15629 *Sentiana*
15630 *Geranium*
15631 *Chaetanthera*
15632 *Werneria*
15633 *Agrostis*
15634 *Agrostis pumila*
15635 *Eragrostis*
15636 *Lycopodium*
15637 *Lycopodium*
15638 *Werneria*
15639 *Dicroides*
15640 *Asplenium*
15641 *Elaphoglossum*
15642 *Juncosmia*
15643 *Asplenium*
15644 *Lichen*
15645 *Lichen*

F. V. H S. to 3½'	vert. F. pet! o.r. seb. r. wlf. q.y. Fr. grass - q. wlf. purp. + q. F. 2-3 cm. wide. sta. ve F. sta. about 25
H	F. cor. gr. F. pet. light y.
H	F. bedds gr. y.
H	F. cor. w. F. pet. w.
H	F. cor. light p. str. F. pet. deep p. or palm F. rays gr. y. light F. cor. deep. gr. y. F. rays + cor. w.
H	F. rays w.
F.	
soil	
soil	

20
~~21~~
Dec. 21 paramillo, Pan. de las Vegas
~~etc~~ ant. q.

Parade off Vegas

1. very numerous. pet. y.
pet y.

F. Leeds gr. y.

F cor. w.

F. pet. w.

F. cor. light p. str.

F pet. deep. p. a. f.

P. raus gr. v. ex.
Cort. deep. gr.

F. rapt & Cor. u.

100

10 of 10

10. The following table shows the number of hours worked by each employee.

10

+ rays w.

Digitized by srujanika@gmail.com

100

100

100

100

10

10

3700
~~3800~~

3700
~~3800~~

Smithsonian Institution
Washington, D.C.

15646	moss		
15647	(rub.)		
15648	<i>Eriogonum</i>	at soil	
15649	(Cyperaceae)	T. 8-12 slender	F. cor. gr. y.
15650	<i>Hypoxis</i>	H.	F. pet. br. y.
15651	<i>Alcidiaria</i>	H.	S. to 12' F. pet. y. sta. 300m
15652	<i>Chelanthes</i>	F.	F. pappus w.
15653	<i>Lycopodium compactum</i>	F.	
15654	<i>Elaphoglossum</i>	F.	
15655	<i>Erigeron</i>	H.	F. pappus grey.
15656	<i>Stipa</i>	H.	heads gr. y.
15657	<i>Guaphtalium</i>	H.	
15658	<i>Juncosmia</i>	F.	heads silvery w.
15659	<i>Guaphtalium</i>	H.	F. pet. w.
15660	<i>Scleria cespitatum</i>	H.	pet. p.
15661	<i>Geranium</i>	H.	
15662	<i>Alechemilla orbiculata</i>	H.	sep. y. w.
15663	<i>Ranunculus</i>	H.	
15664	<i>Lycopodium</i>	F.	
15665	<i>Valeriana</i>	H.	cor. w.
15666	(indist.)	H.	pet. br. y.
15667	<i>Plantago</i>	H.	bracts purp. anthers y.
15668	<i>Sisyrinchium</i>	H.	
15669	moss	on soil	
15670	(umbel.)	H.	
15671	(umbel.)	H.	pet. w.
15672	<i>Veronica</i>	H.	cor. deep. b.
15673	(umbel.)	H.	pet. w.
15674	<i>Mabvastrum</i>	H.	pet. purp.
15675	<i>Carex</i>	H.	
15676	<i>Veronica</i>	H.	ray w.
15677	<i>Erigeron</i>	H.	infl. w.
15678	<i>Castilleja</i>	H.	bracts r.
15679	<i>Hallenia</i>	H.	cor. y.
15680	<i>Hallenia</i>	H.	cor. gr. w.

Dec. 20 paramo of Vegas

3700-
3800

1 1 2 1 2 1

- 15681 *Gaultheria*
 15682 *Bidens*
 15683 *Hieracium*
 15684 *Espeletia* "frailejone"
 15685 *Ranunculus*
 15686 *Audropogon*
 15687 *Eupatorium*
 15688 *Verbisina*
 15689 *Eupatorium*
 15690 *Miconia*
 15691 *Cestrum*
 15692 *Solanum*
 15693 *Werneria*
 15694 *Hypericum*
 15695 *Jamiesonia*
 15696 *Cystopteris*
 15697 *Odontosoria*
 15698 *Miconia*
 15699 *Polystichum*
 15700 *Sticheriopteris*
 15701 *Polyodium*
 15702 *Eupatorium*
 15703 *Graphalium*
 15704 *Erigeron*
 15705 *Seravium*
 15706 *Senecio*
 15707 *Elaphoglossum*
 15708 orchid
 15709 *Elaphoglossum*
 15710 *Elaphoglossum*
 15711 *Senecio*
 15712 orchid
 15713 *Polystichum*
 15714 *Piperomea*
 15715 *Epilobium*

F. low,
 H. pros.
 H.
 H.
 H. coarse
 H. basal,
 H.
 H. 3-4'
 H. in clumps invol. 9" cor. lobes l. b.
 H. wood at base 10-15' rays & cor. br. y.
 T. 8-10' cor. t. style top
 T. trunk 4-5' l. 8" diam.
 S. 5-7' cor. deep pur. out.
 H.
 H.
 S.
 F.
 F.
 F.
 S. compact pet. pur. ant.
 F.
 F. caudex upright 4-8" diam.
 F. $\frac{1}{2}$ -2' high, base of stem p.
 F. to 2' cor. t. sta. w.
 H.
 H.
 H. slender pet. light p.
 H. erect cor. br. y.
 H. slender
 F.
 H. ep. sub. grec. mot. with
 col. y. q. prox pur. dist
 F.
 F.
 F. 10-12' cor. y.
 H. ep.
 F.
 F. H.
 H.

Rec. 20. paramo of Vegas

3700 3
3800

3600-
3700

Dec. 21 E

short style. cor. gr. w.

edge of paramo

3 1 3 2 2 2 2 2 2 2 2 2 2 2 2

paramillo

- 15716 Hieracium
 15717 Rubus
 15718 lichen
 15719 lichen
 15720 moss
 15721 Oxyosanthus
 15722 Thibertia
 15723 lichen
 15724 moss
 15725 hepatic
 15726 Polypodium
 15727 Polypodium
 15728 Lipsoloma
 15729 Peperomia
 15730 Eupatorium
 15731 (quelaet.)
 15732 Osteolemes
 15733 Begonia
 15734 Thunbergia
 15735 Buddleia
 15736 Geranium
 15737 Weinmannia
 15738 Ficus
 15739 Stellaria
 15740 Polypodium triangulare
 15741 moss
 15742 hepatic
 15743 Eupatorium
 15744 Eupatorium
 15745 Eupatorium
 15746 Polypodium
 15747 Polypodium
 15748 Polystichum
 15749 lichen
 15750 moss

H. heads y.
 V. woody pet rich p.
 soil
 soil
 soil
 H. per. br. br.
 T. 30-40' cor. r. yellow dust
 airings
 on decaying wood
 on decaying wood
 on trees on 722
 on trees
 H.
 H. on trees style on 722
 S. 7-10' style pink y.
 T. slender pet. ysls. w.
 ? Fr. y. g.
 H. succ. pet. h. stay.
 (V. or S.?) ~~upper~~ pet. fil. n. ^{cor. b.} ant. cream
 T. cor. b. ant. cream
 H. pet. deep p.
 H. 7-10' pet. w.
 H.
 F.
 S. pet. mag. ant y.
 on decaying wood
 " "
 H. woody cor. greenish w.
 S. 5-10' cor. y. pink fine w. - ant. style + ant. w.
 F.
 F.
 F.
 soil
 soil

Rec. # parvillo

~~set. above Vega~~

3600
3200'

3499
3400
3600

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15751	moss
15752	moss
15753	moss
15754	moss
15755	<i>Elaphoglossum</i>
15756	<i>Orobatus</i>
15757	<i>Pasplum</i>
15758	<i>Odantesoria</i>
15759	<i>Arenaria minuta</i>
15760	moss
15761	moss
15762	<i>Solanum</i>
15763	<i>Eupatorium</i>
15764	<i>Matricaria</i>
15765	<i>Senecio</i>
15766	<i>Oxalis</i>
15767	<i>Stellaria</i>
15768	<i>Hieracium</i>
15769	<i>Pasplum</i>
15770	<i>Agrostis</i>
15771	<i>Elaphoglossum</i>
15772	<i>Stipa</i>
15773	grass
15774	<i>Asplenium</i>
15775	<i>Elaphoglossum</i>
15776	<i>Eupatorium</i>
15777	(<i>Melastomaceae</i>)
15778	<i>Asplenium</i>
15779	<i>Viola</i>
15780	<i>Molinia</i>
15781	(comp.)
15782	<i>Solaceae</i>
15783	<i>Phytolaca</i>
15784	<i>Baueria</i>
15785	<i>Dryopteris</i>

sort
 sort
 sort
 sort
 sort
 f. on soil
 y. shrubby pet. dep.
 H.
 F.
 H. repeat. pet. w.
 soil
 soil
~~H.~~ S. 6-10' F. cor. cream
~~H.~~ 45' cor. y. very
 S. sty. light p. viola
 H. rup. br. y.
 H. wlf. green y.
 H. succ. pet. y.
 H. repeat pet. w.
 H. infl. y.
 H.
 H.
 F. on rocky bank
 H.
 H.
 F. on rocks
 F. on rocks
 S. 5-8' cor. sty. cream
 S. 3-4' pet. pinkish. also off
 F. on rocky banks
 H. rep. pet. light b., striped
~~F.~~ 8-12' lobes y. sty. pink
 S. 3-4' cor. cream
 S. 3-4' cor. dull p. b.
~~H.~~ H. 1-3' coase/sep + fil. dep. ^{an}
 V. herb. pointed seg. egg. lot
 F.

Rec. 21 paramillo

3400

~~3300~~
3600

- 15786 *Elaphoglossum*
 15787 *Stipa*
 15788 *Pennetyna*
 15789
 15790 *Mimulus*
 15791 *Geranium*
 15792 *Lycopodium*
 15793 *Bromelia*
 15794 *Thibodia*
 15795
 15796 *Gaultheria*
 15797 *Elaphoglossum*
 15798 *Elaphoglossum*
 15799 *Lycopodium*
 15800 *Vaccinium*
 15801 *Melastoma*
 15802 lichen
 15803 *Thibodia*
 15804 *Alsophila*
 15805 *Sisyrinchium*
 15806 *Thibodia*
 15807 *Elaphoglossum*
 15808 *Elaphoglossum*
 15809 *Polyodium*
 15810 *Pelticanthus*
 15811 (ordic)
 15812 *Odontosoria*
 15813 *Polyodium*
 15814 *Lycopodium*
 15815 *Gaultheria*
 15816 moss
 15817 hepatic
 15818 *Trichomanes*
 15819 *Reperomea*
 15820 *Thibodia*

F. on bank.
 H. 3-10'
 S.
 H.
 H. cor. y.
 H. pet. deep p.
 F.
 V. herb. per. seg. all deep?
 " 10-15' cor. r.
 S. bran. dependent.
 S. bran. depend. petr. corona q.
 S. 10-12' cor. lip Fr. r. b.
 F.
 F.
 F.
 S. 6-8' cor. light p.
 S. stem erect with short lat. bran. pet. deep. mag
 peaty soil
 S. cor. br. r.
 F. candel 6" above gr. fr. mid. stage, 3' edge of woods
 H.
 T.
 F.
 F.
 F.
 F.
 F.
 F.
 F.
 F.
 S. bran. seg. scarlet.
 H. terr. pet. spot. at low
 5-6'
 S. in soil
 S. in soil
 S. cor. p.
 S. in wet log
 H. succ. on wet fallen
 S. or low T. cor. de. p. pro, much palm. chart

Dec. 21 exposed hillsides above leg.

3200
3400

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woods
woods

e. h.

edge of woods

e. h.

ticket

e. h.

woods

3200-
3200

- 15856 *Hypericum*
 15857 *Erythroxylum*
 15858 *Polyodium*
 15859 *Stelis*
 15860 *Eupatorium*
 15861 *Cathea*
 15862 *Morning linda*
 15863 *Morning*
 15864 *Viburnum* "garocha"
 15865 (rub.)
 15866 (laur.)
 15867 (laur.)
 15868 *Vaccinium*
 15869 *Nikania*
 15870 *Epidendron fimbriatum*
 15871 *Zlibodia*
 15872 *Phroodendron*
 15873 *Tillandsia*
 15874 *Cladoglossum*
 15875 *Lepanthes*
 15876 *Asplenium salicifolium*
 15877 orcluid
 15878 *Stelis*
 15879 *Melastoma* "morcato"
 15880 *Zlibodia*
 15881 lichen
 15882 *Saccoloma*
 15883 *Cladoglossum*
 15884 moss
 15885 *Polyodium*
 15886 *Allophylia*
 15887 lichen
 15888 moss
 15889 orcluid
 15890 *Palicourea*

S. 1-3' pet. y. sta. ± 20
 H. ter linda g. w.
 F. on tree
 H. ep.
 H. ± 2½' cor + sty. w.
 T. F.
 S. 6-8' 5-9'
 S. 5' 6-8'
 T. 12-16' cor. w.
 S. erect, 8-12'
 T.
 T.
 S. cor. w.
 V. woody cor. sty. w.
 H. ter sep. light p. to w.
 S. cor. dark to pale p.
 E. H. on Pernettya ex. lip, pur. dot. dry banks.
 E. H. c. 4.
 F. on soil woods
 E. H.
 F. H. sep. pale g. sta. & poor w. diet. sty. p.
 T. trunk 3-8" pet. rich pur. or
 S. on woody v. cor. br. r.
 on tree trunks
 F. fr. (ucl st.) 3-5'
 F. on soil
 F.
 T. F.
 on tree
 soil
 H. ep. seg. r.
 S. slender comp. at base R. dust. lichen
 S. ± 6' cor. foliaceous at base

3020-
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2700-
3000

15891		S. 6-8'	
15892	moss	on soil	cor. q. w.
15893	moss	on soil	
15894		T. 15-20'	
15895	<i>Quercus</i> "roble"	T. 30-60'	pet. w.
15896	<i>Miconia</i> "timo"	S. 6-10'	pet. p.
15897	<i>Weinmannia</i> "ensenillo"	T.	
15898	<i>Melaleuca</i>	v. woody	stems br. r.
15899	<i>Psychotria</i>	S. 6-12'	cor. p.
15900	lichen	on soil	
15901	lichen	on soil	
15902	moss	on soil	
15903	<i>Fycodium</i> "madrillo"	F.	
15904	<i>Pteranopteris bancroftii</i>	F.	
15905	(gent.)	S. 8-12'	cor. rich p. - y. poor in faintly
15906	(myrs.)	T. 15-25'	cor. w. faintly + pet. striped
15907	<i>Viola</i> "grande"	H. repeat.	pet. viol, pur. strip. used for fevers)
15908	hepatic	on decaying wood	
15909	<i>Hymenophyllum</i>	F. on tree	
15910	<i>Polyodium</i>	F.	
15911	<i>Passiflora longipes</i>	V. herb.	thickets
15912	<i>Epidendron</i>	H. terr.	e.l.
15913	<i>Gaultheria</i> "cauravero"	S. 8-12'	thickets
15914	<i>Marchantia</i>	on soil	
15915	<i>Ficus</i>	T.	
15916	moss	on soil	
15917	moss	on soil	
15918	<i>Thorectes</i>	S.	
15919	<i>Mitania</i>	T. 15-20'	cor. pale p. to w.
15920	<i>Hypericum</i>	S. 2-3' ascending bran.	pet. + sta. w.
15921	moss	on soil	pet. y.
15922	moss	on soil	
15923	<i>Ochnocephala</i>	F.	
15924	moss	on soil	
15925	moss	on soil	

Dec. 21 Woods

2700-
3000

Vol. 25
Dec. 21

15926	<i>Passiflora quadrangularis</i>	V. herb. descr. elsew.	Rec. 21. thickets	above Vegas	2800-
15927	<i>Ranunculus</i>	H. sep. y.	fields		3000-
15928	<i>Odontosoria</i>	F.	e. h.		1
15929	<i>Odontosoria</i>	F.			1
15930	(Bromeliad)	E. H. upl. br. r.	woods		1
15931	<i>Grewia</i>	T. 20-25'			1
15932	bamboo	V. herb.			1
15933	<i>Eupatorium</i>	S. 8-10'	cor. st. & rich fm.		1
15934	<i>Melastoma</i>	S.	pet. rich p.		1
15935	<i>Passiflora quadrangularis</i>	V. herb.			1
15936	<i>Spleenwort</i>	on soil			1
15937	<i>Clusioides</i>	T. 35-40' wide spread	pet. g. y.		2
15938	<i>Ficus</i>	T.			2
15939		T.			2
15940	<i>Lycopodium</i>	F.			2
15941	<i>Melastoma</i>	T.			2
15942	<i>Athyrium</i>	on trees	spathe p. out.		2
15943	<i>Piper</i>	T. 20' tr. bran. near sun	W. W.		2
15944	<i>Poly podium</i>	F. rep. at base of trees			2
15945		T.			2
15946	ovied	H. terr.	pet. w.		3
15947	(eric.)	S. 4-6'	cor. w.		1
-15948	<i>Asplenium salicifolium</i>	F. on trees	W. W.		2000-
15949	<i>Pilea multiflora</i>	H. succ. rep.	woods		2900
15950	<i>Asplenium macrozomum</i>	H. at base			2
15951	<i>Passiflora biflora</i>	F.			1
15952		V. herb.			2
15953	<i>Venmania impressa</i>	V. woody			2
15954	<i>Antlerium</i>	S. 6-12'			2
15955	Cyathodes <i>Cyathodes longifolia</i>	H. terr.	spathe p. out paler w.		2
15956	<i>Cyathodes caulescens</i>	H. terr.	becoming deep p.		2
15957	<i>Polypodium flexuosa</i>	H. terr.			2
15958	<i>Bromelia vivida</i>	F.			2
15959	<i>Elaphoglossum lignum</i>	H. leaves basal	cor. w.		2
15960	<i>Nicania</i>	F.			2
		S. 8-12'	pet. w.		2

- 15996 *Dolypodium pinnula*
 15997 (vaccin.)
 15998 *Quercus*
 15999 *Sycopodium*
 16000 *Meibomia*
 16001 palm
 16002 moss
 16003 *Boronia*
 16004 moss
 16005 *Cyperus macrochaetus*
 16006 *Glycoides*
 16007 *Fragaria*
 16008 moss
 16009 *Eupatorium*
 16010 *Lilium*
 16011 *Milium*
 16012 *Cuphea*
 16013 *Solanum*
 16014 *Giboncleena*
 16015 *Veronica*
 16016 *Syzygium*
 16017 *Haleckia pedocarpum*
 16018 *Equisetum quinquefolium*
 16019 *Pilea crenata*
 16020 *Pilea satundifolia*
 16021 *Polyodium ciliatum*
 16022 *Trichomanes elongatum*
 16023 *Hydrocotyle Humboldtianna*
 16024 *Sellaginella*
 16025 *Pilea atropurpurea*
 16026 moss
 16027 *Tropaeolum*
 16028 *Peperomia diformis*
 16029 moss
 16030 moss

F. 8-12.
 T.
 F.
 H. stan. b. pu. wings
 P. style 3' + keel lar.
 P. fr. 3'
 on decaying wood
 H. cor. w.
 on decaying wood
 H.
 H. pet. w.
 H. pet. w.
 on decaying wood
 S. 8-15' cor. to pap. li. stan. col.
 styles 6' pap. stig. w.
 S. 10-12' rays br. cor. y.
 y. woody. pap. li. b.
 rep. pet. p. to w.
 H. trans. pet. p. to w.
 T. 10-12' trunk 2" diam. cor. w.
 pet. pale p. to w.
 H. stan. deep. p. aut. y.
 H. cor. pub. striped lobes.
 H. pet. + 1 cm diam.
 H. coarse self. q. aut. y.
 F.
 H. succ. repeat
 H. at base to 3' long
 H. succ.
 H. on wet rocks
 F. dependent from branches
 F. dependent from branches
 H. repeat in
 H. wet soil
 F. in wet soil
 H. succ. repeat whole plant
 deep pu.
 on trunks
 V. herb. cal. spur red, lobed
 cor. deep pu. striped with q.
 H. succ. lobed
 H. app. to trunks
 on trunks
 "

Dec. 22 woods
 edge of wood Vegas
 2600-
 2900 fm

field
 edge of wood
 woods
 field
 woods
 field

woods
 edge of woods

field
 edge of woods
 field

thicket
 marsh
 dense woods along stream

sta. bl. pur. aut. steel bl.

- 16031 *Elaphoglossum pannulum* F. on trees
 16032 *Sabicea* H. to $2\frac{1}{2}$ ' cor. rcp. w. at base
 16033 *Cyathea* F. trunk $3\frac{1}{2}$ ' fr. 7'
 16034 *Elaphoglossum pleloglynum* F. terr.
 16035 *Piperomia* H. on tree
 16036 *Arthrum rotundifolium* H. on tree spathe q.
 16037 *Begonia* S. 2-4' large pet. lv.
 16038 *Riccia* S. wide-spread sta. y.
 16039 *Siparuna* on leaf of 16036
 16040 *Coccocephalum* T. 15-20'
 16041 *Polyodium* H. 2-3' cor. w. fr. br. b.
 *16042 hepatic
 16043 *Pilea viridis* F. on tree
 16044 palm
 16045 *Panicoured*
 16046 *Piperomea*
 16047 *Arthrum hastatum*
 16048 *Lagerstroemia*
 16049 *Aplectrum*
 16050 hepatic
 16051 *Piper*
 16052 *Canya*
 16053 *Polypodium suspensum*
 16054 *Pilea*
 16055 *Piperomea*
 16056 *Psychotria*
 16057 *Cibotium*
 16058 (sub.)
 16059 *Fernaria*
 16060 *Pilea Erythrodia frescotta* H. terr. 3 sep. grass q.
 16061 *Agratis* H. terr. 2 sep. w.
 16062 *Carex*
 16063 *Cyperus*
 16064 *Hypoleaianthus*
 16065 *Tulfa*
- F. on trees
 H. to $2\frac{1}{2}$ ' cor. rcp. w. at base
 F. trunk $3\frac{1}{2}$ ' fr. 7'
 F. terr.
 H. on tree
 H. on tree spathe q.
 S. 2-4' large pet. lv.
 S. wide-spread sta. y.
 on leaf of 16036
 T. 15-20'
 H. 2-3' cor. w. fr. br. b.
 F. on tree
 on leaf of 16050
 H. on wet forest floor
 F. trunk $3\frac{1}{2}$ '
 S. stem $\frac{1}{2}$ - $\frac{3}{4}$ diam
 succ. stem repeat
 H. at base, to $4\frac{1}{2}$ ' spathe q. burning b.
 H. ep.
 T.
 F.
 on leaves
 S. 3-4'
 H. terr. br. deep cor. light y.
 F. on trees
 H. terr. repeat at base, to 2'
 H. succ.
 H. terr. 8-10' cor. (faded) attenuate
 T. F. trunk ± 1 , lobes q.
 V. woody
 F.
 H. terr. 3 sep. grass q.
 H. terr. 2 sep. w.
 N.
 H.
 H.
 H. leads w.
 V. herb. cor. y.
- Rec. 22 dense woods along stream U. 3600
 2900
- 16031
 16032
 16033
 16034
 16035
 16036
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 *16042
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- 16066 *Eupatorium*
 16067 *Veratrum canescens*
 16068 *Pityrogramma tatarica*
 16069 *Polypodium*
 16070 *Licaria*
 16071 *Equisetum*
 16072 *Viola major*
 16073 *Hydrocotyle*
 16074 *Siumera*
 16075 *Oxalis*
 16076 *Polypodium*
 16077 *Colunaria*
 16078 *Roudeletia*
 16079 *Hydrangea*
 16080 *Polymnia*
 16081 *Saranya*
 16082 *Pilea*
 16083 *Randia*
 16084 *Miconia*
 16085 *Saranya*
 16086 *Lactuca*
 16087 ~~Hibiscus~~ *Hibiscus*
 16088 *Viola prolifera*
 16089 *Hydrangea*
 16090 *Thibodia*
 16091 *Jacobinia*
 16092 *Salvia*
 16093 *Pilea daucidora*
 16094 ~~Galium~~ *Rebunium*
 16095 *Tropaeolum*
 16096 *Asplenium*
 16097 *Pilea abrupta*
 16098 *Asplenium*
 16099 *Clematis*
 16100 *Thibodia*

- 23
- S. with bran. bracts w. prox. g. dist.*
5-5' dependent striped with 3 g. never
H. with woody cor. w. p. spot. at tip
H. lower part. 3' largest lobe p. - spot.
F. on moist banks
F. on trees
H.
F.
H. moist pet. deep p. prox pale
H. soil violet dist. lippalp. vio, striped with p. marshy borders of stream
H. moist
H. coarse leaves spikes 2-4' h.
H. to 3-4' across erect leaves p. ting. beneath.
H. succ' pet. Y.
F.
H. woody fr. w. prox, deep p. dist
V. herb.
S. with droop. bran. bracts g. w., pet. deep p. faintly striped with w.
8-12' 36-12' cor. w. rays Y.
H. 4-6' cor. w. droop. rays Y.
pet. g. out g. w. in.
T. succ. plant purpled throughout
H. on rocks, moist cor. w.
S. 8-12' pet. w.
S. bran. prox. pet. w. ant. y.
H.
S. bran. droop. pet. r.
7-10' stem repeat
H. moist pet. deep r.
V. herb. pet. pet. deep r.
S. 8-15' sterile pet. light p. publ. g. r. l. w.
V. woody pet. prox. paler dist. ant. to paler dist. style g. w. prox. pale p. dist.
slender pet. brunt o. fil. vel. with paler prox. ant. deep brown.
H. 3-4' cor. g. prox. rich p. dist.
H. succ. stem repeat at base
V. herb.
V. herb. ~~spur.~~ pedicel g. prox. to mid deep p. dist.
F.
H. succ. 3' h.
F. on tree, fr. droop.
V. woody F. w.
S. 8-10' fr. dark g.
- Rec. 22 edge of woods Vegas
 scor. light p. edges + styles rich p.
 field
 edge of woods along stream
 marshy borders of stream
 edge of woods along stream
 marshy borders of stream
 marshy borders of stream
 edge of woods along stream
 marshy borders of stream
 woods
 e. w. along stream

2600.
2800

?

t
1

1

tu
1

- 16101 *Cassia*
 16102 *Jussiaea*
 16103 *Rubus*
 16104 *Polygala*
 16105 *Tobellia*
 16106 *Cissampelos*
 16107 *Phenax rugosus*
 16108 *Codiaeum*
 16109 *Weinmannia*
 16110 *Duranta*
 16111 *Passiflora*
 16112 *Rosa*
 16113 *Eupatorium*
 16114 *Euphorbia*
 16115 *Freycinetia*
 16116 *Aroda*
 16117 *Ageratum*
 16118 *Sarauja*
 16119 *Psychotria*
 16120 *Portulaca*
 16121
 16122 moss
 16123 *Equisetum giganteum*
 16124 (comp.)
 16125 hepatic
 16126 *Pilea*
 16127 *Nilsania*
 16128 *Nuconia*
 16129 lichen
 16130 *Syngonium*
 16131 moss
 16132 moss
 16133 *Boehmeria*
 16134 *Weinmannia*
 16135 *Epidendrum*

T. 12-15' pet. y.
 H. ± 2' wet soil pet. y.
 woody pet. palep.
 V. pet. deep p. paler at apex
 H. cor. b.
 H. V. herb.
 S. 4-8' F. q.
 S. 8-12' F. clusters reddish
 T. 10-12' sta. w.
 S. 7-10' with cor. p. midrib b.
 elong. bran. sep. fr. o.
 V. herb. set. coriaceous, br. out, y. q. in pet. w. corona (closed) operculum.
 S. low on S. moist bank. pet. p.
 S. 7-10' cor. q. lobes red p.
 H. pros. sty. red p.
 H. ter. sep. q. w.
 H. pet. w. prox, b. p. dist
 H. cor. w. sty. p.
 T. 15-18' pet. w. ~~sta.~~ sta. y.
 S. 8-12' tube y. sep. q. p.
 H. ter. buds br. q.
 S. elong. bran. on tree
 F. ± 5' h. cor. w. prox, p. striped dist
 H. to 7' cor. & styl. q. w.
 on tree stem
 H. succ. rep. at base to 3' h.
 V. woody cor. & styl. q. w.
 below 12-15' fl. buds q.
 T. in tree
 F. stipe 4' br. 6'
 F. caudex upright
 on tree
 on tree
 T. 15-20' per. seg. eight q. autn.
 T. leaves br. q.
 T. 12-20' ~~fl. buds~~
 H. ep. F. eight q. throughout

Rec. 33 22 clearing
m. b. of stream

field

e. w. along stream

cleaning.

corona (closed)
operculum.

field

e. w.
exposed hillside

woods

edge of woods

woods

Vegas

2600.
2400.

P.T.

16136	<i>Alsophilila</i>	T. F. stipe 3' usually much blacker than in spec.	Dec. 22 wood	Vegas	2600- 2200
16137	<i>Piper</i>	S. 2-4'			2600- 2200
16138	(acanth.)	H. coarse,			2600- 2200
16139	<i>Psychotria</i>	H. 5-8'			2600- 2200
16140	<i>Plantago</i>	S. 7-6'			2600- 2200
16141	<i>Juniperus</i>	H. H. T. 40-50'	clearing		2600- 2200
16142	<i>Leymaria cordata</i>	H. pros. pet. w.	field		2600- 2200
16143	<i>Hymenophyllum</i>	F.	woods		2600- 2200
16144	<i>Hymenophyllum</i>	F. on trees			2600- 2200
16145	<i>Hymenophyllum</i>	F. on trees			2600- 2200
16146	<i>Hymenophyllum</i>	F. on trees			2600- 2200
16147	<i>Hymenophyllum</i>	F. on tree			2600- 2200
16148	<i>Hymenophyllum</i>	F. on trees			2600- 2200
16149	<i>Epipactis</i>	H. terr.			2600- 2200
16150	<i>Gaelia</i>	H. ep. + terr.			2600- 2200
16151	<i>Stelis</i>	H. ep.			2600- 2200
16152	<i>Sparatties</i>	H. ep.			2600- 2200
16153	<i>Sparatties</i>	H. ep.			2600- 2200
16154	<i>Sparatties</i>	H. ep.			2600- 2200
16155	<i>Sparatties</i>	H. ep.			2600- 2200
16156	Mayallaria Mayallaria	H. ep.			2600- 2200
16157	Mayallaria	H. ep.			2600- 2200
16158	Mayallaria	H. ep.			2600- 2200
16159	<i>Vernonia</i>	V. woody. papery w.	Dec. 24 open banks bet. Pied. + Las U.		2600- 2200
16160	<i>Lioscorea</i>	V. herb.	edge of woods		2600- 2200
16161	<i>Eclites</i>	V. herb. / cor. lobes pr. spotted toward apex.			2600- 2200
16162	<i>Peperomia</i>	H. fleshy	woods		2600- 2200
16163	<i>Ipanea</i>	herb.	edge of woods		2600- 2200
16164	<i>Eupatorium</i>	V. coarse; H. 3-5'			2600- 2200
16165	<i>Vernonia</i>	V. woody	papery w.		2600- 2200
16166	<i>Mikania</i>	V. woody	cor. cream w.		2600- 2200
16167	<i>Verbina</i>	S. 4-7'	cor. + sty. pure w.		2600- 2200
16168	<i>Centropogon</i>	V. woody	woody		2600- 2200
16169	<i>Polygala</i>	H. 3-4'	pet. w. poor, pale p. dist.		2600- 2200
16170	<i>Glechomanthus</i>	S. 8-12'	cor. p., w. striped in.		2600- 2200

16171	<i>Eupatorium</i>	S 5-8' H. 1-3' T. 30-40'	cor. g. w. prox. p. at apex, styl.
16172	<i>Tourera</i>	H. at base T. 30-40'	pet. y., br. blackened at base
16173	<i>Chamaefistula</i>	S 4-6' V. herb. V. herb. T. 5-15'	sep. glaucous out g. w. in, pet. w. p. tenu. at margin corona (ely.) pet. g. w. corona perianth
16174	<i>Cordia corymbosa</i>	T. 10-20'	cal. glaucous cor. g. pale prox. petals reflexed cor. br. l. pale, ant. y.
16175	<i>Passiflora</i>	V. woody	light b. at midrib in.
16176	<i>Funastrome</i>	S 6-10' bran.	aut. y. roadside y. at throat (used as an. insect poison)
16177	<i>Alliandra</i>	H. droop.	petals y., lobes pale y.
16178	<i>Solanum grandiflorum "toron"</i>	V. herb.	cor. tube y., lobes pale y.
16179	<i>Baccares serjana</i>	V. woody	cor. w.
16180	<i>Eupatorium</i>	T. 10-12'	
16181	<i>Metastelma</i>	H. coarse	rays y. cor. y.
16182	<i>Vernonia</i>	H. or low S. to 5'	sep. greyish w.
16183	<i>Bursaria</i>	V. herb.	
16184	<i>Trixis</i>	T. 8-15'	bracts g. cal. g. w. spotted with black dark br.
16185	<i>Sergania</i>	V. herb.	petals p. pale prox.
16186	<i>Gesnypium</i>	T. 8-12'	cor. b. pale prox.
16187	<i>Sponaugaequimontana</i>	V. woody	pet. deep r., aut. y.
16188	<i>Gutrophia</i>	T. 15-18'	cor. r.o. paler dist.
16189	<i>Lestertia</i> Corp.	S. 6-10'	H. bran. pros.
16190	<i>Machaerium</i>	H. to 5'	T. 10-12' styl. w.
16191	<i>Hibiscus</i> Hamelia	V. herb.	
16192	grass	V. herb.	cor. br. r.
16193	<i>Crocosmia</i>	V. herb.	
16194	<i>Tresine</i>	S. with droop. bran.	petal w.
16195	<i>Guanacolit</i>	V. herb.	cor. w. fil. pale y.
16196	<i>Vernonia</i>	V. herb.	
16197	<i>Hemiotyle</i>	S. with droop. bran.	
16198	<i>Pandurina</i>	V. herb.	cor. w. fil. w. aut. y.
16199	<i>Peperomia</i>	H.	
16200	<i>Pilea</i>	F.	
16201	<i>Arenaria</i>	F.	
16202	<i>Diplaygium</i>	F.	
16203	<i>Rivina</i>	F. herb.	cor. yellow mottled p.
16204	<i>Paulownia</i>	T. 15-20'	fr. r.
16205	<i>Acacia</i>	T. 15-18'	

Rec. 24 edge of woods bet Pied & Las.

thicket Piedmonte
7. floridæ

roadsides (used as an.
insect poison)
Dec. 25. northern slopes, Puc. plateau

Dec. 26. thicket

northern slopes, Puc. plateau

valley of R. Surata

rocks by banks

thickets

2000-
2200-
1400-
1600-
1000-
900-
800-
1000-

2
2
3
3
4
4
4

U-4,5

400-
600

24

- 16206 Tresine
 16207 Adiantum
 16208 Piper
 16209 Pachira
 16210 Nymphaea
 16211 grass
 16212 Piper
 16213 Guazuma
 16214 ~~Eupatorium~~ Hyptis
 16215 Colliandra
 16216 Piper
 16217 Stryopteris
 16218 Meriana
 16219 Cordia
 16220 Polygala
 16221 Epidendras
 16222 Epidendras
 16223 Passiflora (16175?)
 16224 Peperomia
 16225 Croton
 16226 Wattloria
 16227 Serjania
 16228 Cupatatum odoratum
 16229 Plumbago
 16230 Ficus
 16231 cactus
 16232 Serjania
 16233 Comp.
 16234 Anthurium
 16235 grass
 16236 Uncarosia
 16237 Cissapeles
 16238 Ptenis
 16239 ~~Heterocarpus~~ (malfig.)
 16240 Piper

V. herb. pet g. w.
 F.
 S. 3-6'
 T. 10-12' foliage mostly at summit tracts brown
 T. 8-12' ~~sta. w.~~
 H. bran droop, to 5'
 S. 12-15'
 S. 20-30'
 T. 3-6'
 S. 20-40' cor. b, paler prox. ant. y.
 T. 25-35' ant w.
 S. or small T. 12-20'
 F. woody
 V. woody cor. w.
 S. 4-7' cor. w.
 H. woody at base pet w. ting.
 H. bran semi-prox. with p.
 H.
 V. herb.
 H. 4-6'
 S. 4-8'
 V. herb.
 S. 6-8'
 S. 3-6'
 S. 40-60'
 T. to 8" li.
 H. to 7'
 V. herb.
 S. 3-4'
 H. terr.
 H. to 7'
 H. 1-3'
 V. herb.
 F.
 S. 12-15'
 S. 3-6'

Dec. 28 thickets valley of Surata R.
 rocky banks
 thickets

400-
600

exposed banks

thickets
open banks

thickets

~~clearing~~
open banks
thickets

16241	<i>Thunia mucronatum</i>	T. 10-15'				
16242	<i>Bauhinia</i>	S. or low T. 8-12'	pet. w.			
16243	Piper <i>Acalypha</i>	S. 10-15'				
16244	<i>Eupatorium</i>	S. 3-5'				
16245	<i>Piper</i>	S. 12-15'	cor. bl. sty. fl.			
16246	<i>Anapidaea</i>	V. herb.	cor. deep lvs.			
16247	<i>P. sittum</i>	T. 10-12'	pet. w., fl. w.			
16248	<i>Miconia</i>	S. or small T. 4-8'	pet. w. fl. w.			
16249	<i>Solanum</i>	S. 3-4'	pet. b. ant. y.			
16250	<i>Huraea</i>	S. 5-8' Small tree 10-12 ft.	pet. y.			
16251	<i>Wissadula</i>	S. 5-9'	pet. y.			
16252	<i>Rhus</i>	T. 12-15'	pet. w.			
16253	<i>Diochia</i>	V. herb	Stand. pup., deep hump center; wing pup.; keel wh. purple at apex			
16254	<i>Pleuradenia</i>	Ep. s. on media agederach	st. wh.			
16255	<i>Mimosa "galinero"</i>	T. raised 8-40 ft.	pet. wh.			
16256	<i>Guazuma</i>	T. 20-25'	pet. gr. wh.			
16257	"no"	S. 4-6' Succ.				
16258	<i>Pilea microphylla</i>	H. succ				
16259	<i>Peperomia</i>	H. succ				
16260	(100.)	V. woody	pet. w.			
16261	<i>Serganua</i>	V. woody	pet. w.			
16262	<i>Hiraea</i>	S. 4-5'	pet. y.			
16263	<i>Eugenia</i>	S. 6-9'	gr. br. r. pet. w.			
16264	<i>Cassia</i>	H. slenderly 2-3' very viscoso				
16265	<i>Lavalla</i>	S. 3-5'				
16266	<i>Jussiaea</i>	H. slenderly 2-3'	pet. y.			
16267	(comp.)	V. woody	rays o. y. cor. lobes br.			
16268	<i>Calliantha</i>	T. 25-30'				
16269	<i>Helictotrichos</i>	T. 15-20'				
16270	<i>Acalypha</i>	T. low with droop. bran.	pet. w.			
16271	(comp.)	10-15'				
16272	<i>large Warszywickya</i>	S. 5-7'	rays. y.			
16273	<i>Cordia</i>	S. 8-12' bracts br. r.	cor. gr. y. r. lobes			
16274	<i>Crotalaria</i>	S. low 2½-4'	cor. w.			
16275	<i>Vernonia</i>	H. 2' woody at base	cor. incl. p. papillae w.			
		S. 3-4' stem simple				

Rec. 26 clearing valley of Sur. r.
tulicets

600-
600

u. s. B. p.
open hillside

800-
1000

29 exposed hillside Bucaramanga

750

F-#-1

Upper
valley of Rio Lebrija,
n.w. of Buc.

400-
600

photo -
phot. f.

open rocky bank

open ~~bands~~ hillside

F

- 16276 *Cassia*
 16277 *Audropogon*
 16278 *Aeschynomone*
 16279 grass,
 16280 *Eupatorium*
 16281 *Tsotoma*
 16282 *Peperomia*
 16283 *Justicia*
 16284 *Polyptodium*
 16285 *Epiphyllum*
 16286 *Machaderium*
 16287 *Jacquemontia*
 16288 *Glyptothecus*
 16289 *Palisouraea*
 16290 *Mikania*
 16291 *Helewerneus*
 16292 *Peperomia*
 16293 "
 16294 *Anagris*
 16295 *Crotalaria*
 16296 *Acaciaella bellipii* Benth.
 16297 *Piper*
 16298 *Attaleum*
 16299 (rub.)
 16300 *Iponmea*
 16301 *Rhytidosoria*
 16302 *Tascasis*
 16303 *Cardiospermum*
 16304 *Cida angustifolia*
 16305 *Malactira*
 16306 *Rapanea* "cucharo"
 16307 *Gallactia*
 16308 *Ecclites*
 16309 *Diamoclit*
 16310 *Eupatorium*

T 10-15' pet. y.
 H. somewhat woody cor. y.
 H. 3' h. up to 6 ft. cor. y.
 Coarse herb
 H 1.5 to 2.5 ft. cor. w. lobes & style
 rich purple
 cor. red & yellow
 cor. yellow & red-spotted within open rocky bank
 H
 Serr. herb Spikes white
 S 8-10 ft. calyx y, cor. r.
 H
 Serr. vine Epiphyte
 T 15-25'
 H vine Cor. bright blue
 Ep. shrub Spikes bright green
 T 20-30' Cor. wh.
 H vine Cor. & style wh.
 Serr. vine
 Serr. herb on dry tree bases
 S 10-15" " " " "
 S. 6-8" pet. y.
 H. erect 5 ± 7 ft. Stems w. l.
 Stem slender
 S. 6-8" Stands w.
 H. terr. cor. w.
 S. 8-12" cor. w.
 V. herbi. pet. y.
 V. herbi. pet. y.
 V. herbi. br. li. q.
 H. pet. w.
 H. pet. y.
 H. small trunk 2-3" diam.
 H. 8-15" I woody
 H. 2-2 1/2" I woody
 V. herbi. cor. y.
 V. herbi. cor. & car.
 S. 7-10" cor. & styl. p. w.

Dec. 29 open hillsides

valley of Upper
Río Lebrija

thickets
rocky bank

thicket

river bank

dry hillside

(used for roofs.)
trunks

thickets →

- | | | | | |
|-------|------------------------------|-----------------------------|----------------------------|----------------------|
| 16311 | (carp.) | H. 3-4' | leaves Y. | Kec. 24 |
| 16312 | <i>Pavellinia</i> | V. herb. | fr. r. | |
| 16313 | <i>Scutellaria</i> | H. | cor. li. b. | |
| 16314 | Sarache | <i>S. integrifolia</i> sub- | cor. y. u. | |
| 16315 | <i>Echinocereus</i> | <i>S. secunda</i> (Lam.) | cactus, plants to 10" diam | |
| 16316 | Ocimum | H. | | |
| 16317 | (tilia) | S. | pet. w. star y. | |
| 16318 | <i>Machaerium</i> | T. 20-30' | | |
| 16319 | <i>Struthianthus</i> | on 16318 | | |
| 16320 | Piper | S. 4' | | |
| 16321 | Piper | S. 2-4' | | |
| 16322 | <i>Cupatolum</i> | S. 2-3' | | |
| 16323 | <i>Abrutilan</i> | S. 4-7' | cor. light violet | |
| 16324 | <i>Celtis</i> | H. + woody | sty. pet. w. cor. y. | |
| 16325 | <i>Stigmaphyllon</i> | "Japivo del mante" | V. herb. cor. g. y. | |
| 16326 | <i>Anistolechia</i> | "agalita de pejiga" | V. woody | |
| 16327 | Piper | "cordacilla" | V. woody | fr. 6 angled |
| 16328 | <i>Aduania</i> | "picurita" | S. 5-7' | |
| 16329 | <i>Clematis</i> | "caballo de aul" | S. 4-6' | pet. w. |
| 16330 | <i>Bignonia</i> | | V. herb. | |
| 16331 | <i>Pacttia</i> | | V. woody | cor. red p. |
| 16332 | <i>Solanum</i> | "barigon" | T. 25-30' | sta. w. |
| 16333 | <i>Psittacum</i> | "rayano" | T. 6-8' | flat top. cor. p. b. |
| 16334 | <i>Castilleja</i> | | spread crown | ant. y. |
| 16335 | <i>Visnia</i> | "sangrito" | T. 10-25' | pet. w. |
| 16336 | <i>Cordia ferruginea</i> | "mulato" | H. | |
| 16337 | <i>Aeschynomone</i> | | S. 3-5' | cor. w. |
| 16338 | Verberka | | H. woody | cor. y. |
| 16339 | Verbena | | H. to 5' | cor. w. |
| 16340 | <i>Passiflora cincinnata</i> | | H. | cor. lav. |
| 16341 | <i>Bletia</i> | H. herb. | | |
| 16342 | <i>Leymus</i> | H. | sp. pur. | |
| 16343 | <i>Passiflora coreacea</i> | H. | pet. w. at center, | P. pur. a |
| 16344 | <i>Passiflora</i> | V. herb. | | |
| 16345 | <i>Aeschynomone</i> | H. herb. | | |
| | | | cor. y. | |

Rec. 29 thickets valley of upper
rocky hillside Rio León

woods
open hillside
(fr. used as darts by children)

Rec. 30 open ~~Hillsides~~,
(sap. used as coloring matter)

Buc.

P. F. H.

16346 *Cyathula*
16347 *palm*
16348 *Gilliesia usneoides*
16349 *Rhipsalis*
16350 *Trifilaria*
16351 *Begonia*
16352 *Peperomia*
16353 *Peperomia*
16354 *Peperomia*
16355 *Dicliptera*
16356 *Asplenium*
16357 *Lycopodium*
16358 *Piper*
16359 *Lorsteria*
16360 *Adiantum*
16361 *Anacardium*
16362 *Martenezia*
16363 *Eupatorium*
16364 *Hamelia*
16365 (*Commelinia*)
16366 *Euphorbia*
16367 *Cracca*
16368 *Asplenium*
16369 *Polyodium*
16370 *Weigandia*
16371 *Fimbraria* *Titanis*
16372 *Tripteris*
16373 *Cyperus*
16374 *Paspalum*
16375 *Oxalis*
16376 *Munroa*
16377 *Amparis*
16378 *Opuntia*
16379 *Serganum*
16380 *Echeveria*

V. herb.	cor. y. q.	KCC.
T + 40 ft. ep. drooping succ. ep., bran. dependent	inf. wly., + 9 ft. long from branches	Jan.
12-20	sep. q. ant. q. w.	
H succ. pet. p. to w.		
H succ.		
H succ.		
H succ.		
H.	cor. y.	
F.		
F.		
S. 5-6'		
H.		
F.		
T 15-25'		
P 10-15' leaves 4-5'		
S. 6-10'	cor. w. prox. dist. + sty. p.	
S. 4' stem erect. cor. dep. r.		
H		
H sub-scap. pet. w.		
H. 3-4' pet. w.		
F.		
F.		
T. 8-12' pet. pup. p.		
woody at sta. r. brown		
base pet. y.		
F.		
H.		
H. 2-3' sta. lr. p.	pet. y.	
S. 5-10'		
S. 6-12'	pet. r. p., drying	
woody sta. w. prox. p. dist.		
H succ. pet. w.		
H. sep. q. pet. corrugans, w.		

Dec. 30.	open hillsides	Buc.	"
31	In patio	"	"
Jan. 2.	wooded slopes (valley of R. Surata' rocky slopes} between Buc. + El Jabonilla	Buc. + El	8/16

~~dry~~ rocky hillside

stream bed

rocky slopes

dry. hillsides.

densely r. north. out, & appearing r. r. slopes

P. X-1

- | | | | | | | |
|-------|--|--|--|---------------------------------------|--|---------------|
| 16381 | <i>Arenaria</i> | F. | | | | |
| 16382 | <i>Pellaea cordata</i>
(myrsiniaceae) | F.
F
T 12-20' | cor. w.
cor. red p. int lobes int
cor. g. y. | | Jan. 2 dry hillside, Valley of Surat River
between Buc. o Jaboricello | 800-
1500 |
| 16383 | | V. woody | | rocky slopes | | |
| 16384 | <i>Bignonia</i> | V. herb. | | tube w. int. | | |
| 16385 | <i>Marsdenia</i> | F | | | | |
| 16386 | <i>Nottiolaena bonariensis</i> | S. 6-10' cor. + app w. | | dry hillside | | |
| 16387 | <i>Venomia</i> | S. 6-8' | | rocky slopes | | |
| 16388 | <i>Piper</i> | V. woody cor. g. w. | | dry hillside | | |
| 16389 | <i>Tournefortia</i> | Cac. to 20' h. | | wooded banks of stream | | |
| 16390 | <i>Cephaelocereus</i> | H. ep. | | | | |
| 16391 | <i>Tillandsia recurvata</i> | T 20-30' | | | | |
| 16392 | <i>Lecuna</i> | E.H. | | | | |
| 16393 | <i>Plyllodendron</i> | E.H. | | | | |
| 16394 | <i>Tillandsia</i> | E.H. | | | | |
| 16395 | <i>Clusia</i> | T 30-40' pet. w. | | | | |
| 16396 | <i>Plyllodendron</i> | E.S. on. 16395 | | | | |
| 16397 | <i>Polypodium</i> | F on rocks | | | | |
| 16398 | <i>Epiphyllum</i> | Ep. succ per. tube q. seg. w. in. q. int.
3-8' sta. o. prox, l p. dist car. w. | | | | |
| 16399 | <i>Santalum</i> | pet. y. | | | | |
| 16400 | <i>Cassia pilicaulis</i> | S 6-9' | | | | |
| 16401 | <i>Pleurothallis</i> | H. ep. sep. w. prox, y. q. twig. dist | | dry hillside | | |
| 16402 | <i>Autumnum</i> | H. terr. | | Jan. 3 ^{wooded} rocky slopes | | |
| 16403 | <i>Pleurothallis</i> | H. terr. | | | | |
| 16404 | <i>Polyodium</i> | F. | | | | |
| 16405 | <i>Tillandsia</i> | H. terr. | | | | |
| 16406 | <i>Piper</i> | S 4-5' | | | | |
| 16407 | <i>Epidendrum</i> | H up to 3 ft. 3 sep. o open light gr. | | | | |
| 16408 | orchid | pet. wh. o 1 pet. | | | | |
| 16409 | <i>Eupatorium</i> | H ter. tube o 1 app. or. - y. | | | | |
| 16410 | <i>Bromelia</i> | S 5-8' | | | | |
| 16411 | <i>Ficus</i> | Sleuder 2-3' cor. o styles pure wh. | | | | |
| 16412 | <i>Passiflora cuneata</i> | H panicle 3' high, 1.5 ft. wide, | | | | |
| 16413 | <i>Savonia</i> | T 15-20' | | | | |
| 16414 | <i>Mimosa</i> | H vine | See notes | | | |
| 16415 | <i>Acalypha</i> | S 1.5 ft. pet. y. | | | | |
| | | H 3-5' erect simple stem rich pink | | | | |
| | | T 20-30' ft. infl. green | | dry hillside | | |
| | | | | | valley of R. Sur. between Jabor. & Surat. | 1500-
1800 |

16416	Jasminum	S 8-12'	corolla fine wh.	Jan. 3	rocky wooded slopes	valley of R. San Cof. Jan. our.	3
16417	Cuscuta	Twinning matted vine	" gr.-wh.		dry hillside		
16418	Hura	S low semidecumbent up to 7'	pet. gr. wh.				
16419	Adenanthera	S 5-10'	pet. wh.				
16420	Clusia	T 25-35'	pet. pink wh. br. 1.5 in.				
16421	Pilea	H succ.	pet.				
16422	Adiantum	H					
16423	Chileanthus myriophylla	H					
16424	Paroquiera	T					
16425	I. pumila	H twining	Cor. yellowish - wh. sep. black pink		dry hillsides, among rocks		
16426	Landenbergia	T 25-30 ft	Cor. wh. prox. yellow		rocky wooded slopes		
16427	Buddleia	T	Cor. br.-red pur., Cor. light yel.		dry hillsides		
16428	Salix	T 10-20 , 20-40, trunk straight	los bright green		mahogany red dist. lobes red.		
16429	Comp.	succ. herb. vine	Rays red to or.; cor. or				
16430	Meriania	S 6-10'	Pet. purple.				
16431	<u>Bequia. Cleome</u>	Vine woody	fruit only				
16432	I. pumila	" herb.	Cor. pink purp., blue dist.				
16433	Mimosa	H erect	St. pubish red				
16434	Rubiaceae	S 8-10 ft. with subsc. branches	fr. white				
16435	Peperomia	H succ. epiphy.					
16436	Evolvulus	H prostrate	Cor. light blue		rocky wooded slope		
16437	Polypnia	H 4-8'	Rays o. Cor. y.; stam. purp.		dry hillside		
16438	Comp.	H 2-4'	Cor. wh., pink-purp., stippled				
16439	Cassia occidentalis	H 1-2.5'	Pet. y.				
16440	I. pumila	V Herb. twining	Cor. pink throughout				
16441	Stachys	H 1.5-2.5'	Cor. blue, pale without				
16442	Panzolzia occidentalis	H 2-3'	Pet. gr., starch.				
16443	Centropogon cornuta	s somewhat	Cor. pale pink lobes wh.				
16444	Neoborea	H scandent	Pet. pink				
16445	Othonna minima	H lax elongate	Cor. rich purp.				
16446	Canna	H branches, raised	out. pet. red, inner red, y. purp.				
16447	Rust on 16446	H 2-3 ft.			rocky wooded slope		
16448	Exolobus	H vine					
16449	Mormonia	S 6-10'	Cor. gr.				
16450	Solanum	spreading S 4-6"	Pet. deep blue, lip y-g.				
			Cor. y-wh., antr. ^{dark} y.				

- 16451 Grass
 16452 Passiflora
 16453 Stigmaphyllo
 16454 Comp.
 16455 Cassia
 16456 Inga
 16457 Mimosa
 16458 Caesalpinia
 16459 Cassia
 16460 Alternanthera
 16461 Echinocystis
 16462 Justicia
 16463 Mimosa
 16464 Abutilon
 16465 Piper
 16466 Solanum
 16467 Polygala
 16468 Eupatorium
 16469 Eupatorium
 16470 Gresine paniculata
 16471 Orchid
 16472 Guettarda
 16473 Solanum
 16474 Dura
 16475 Cydia floribunda
 16476 Lasiacis
 16477 Passiflora capsularis
 16478 Prob. Asclep.
 16479 Phaseolus
 16480 Mimosa
 16481 Peperomia galiioides
 16482 Peperomia reflexa
 16483 Inga
 16484 Pavonia
 16485 Causetha

H. Turin
 H. vine
 H. slender
 H. vine
 H. 2-4 ft.
 H. erect 4-7'
 T. 25-35'
 T. shiny
 S. erect, 8-10'
 T. 15-25'
 T. 12-20'
 H. scandent
 H. vine
 S. 3-6'
 S. 8-12'
 H. coarse
 S. 4-6'
 S. 3-5'
 Woolly vine
 H. woody at base
 S. 5-7' lvs.
 S. shiny
 H. hairy below
 S. 2-4'
 S. 5-8 ft.
 H. Epip.
 S. branches scandent
 S. among handsp. trees, up to 20' - pet. y.
 S. 3-8'
 S. slow up to 5'
 S. 5-7'
 H. vine
 H. vine
 H. vine
 H. vine
 S. 6-10'
 H. epip.
 H. epip.
 T. 25-35'
 S. 2-4'
 H.

used in making mats
 for only
 see notes
 Pet. y.
 Rayz y.
 Pet. y.
 Stamens wh.
 " pure wh.
 Pet. or y.
 " bright y.
 Heads purple
 Cor. wh.
 Calyx rich pink, cor. red
 Pet. y, red-br. at base
 Cor. pink-purp, antlgs. wh.
 Pet. pink, brown-streaked
 Cor. & styles wh.
 " " " light green
 Heads white.
 Ibs wholly light green.
 S. among handsp. trees, up to 20' - pet. y.
 Cor. gr.-wh., antlgs. y.
 Pet. wh.
 Cor. wh.
 Cor. wh., gr. at center
 Stand. pink br. without
 yellowish
 Stil. pink, antlgs. wh.

Jan. 3 (native of
 "high mts.") Bet. Jaboncielo o Surata
 wooded rocky slopes

dry hillside

thickets

4 thickets along river - Surata'

1600-
1800

Pl. X-6

Pl. 11-2

1740 m.

1600-
1800

Jan. 8 field
n. of Surata

- 16486 *Motholaea*
 16487 *Hemisphaerion* *Eupatorium*
 16488 *Proctiphila?*
 16489 *Jussiaea*
 16490 *Asclepias*
 16491 *Jussiaea*
 16492 *Brocchia*
 16493 *Cistus*
 16494 *Eupatorium*
 16495 *Nillania*
 16496 grass
 16497 *Piper*
 16498 *Acalypha*
 16499 *Tonidium*?
 16500 *Polyodium*
 16501 moss
 16502 *Adenaria*
 16503 *Acalypha*
 16504 *Typhlos*
 16505 *Cham.*
 16506 *Buddleia*
 16507 *Aplenum*
 16508 orchid
 16509 *Blechnum*
 16510 *Ptenis*
 16511 *Passiflora ligularis*
 16512 *Rivina*
 16513 *Centropogon*
 16514 hepatic
 16515 hepatic
 16516 *Dhordendron*
 16517 *Piper*
 16518 *Sida*
 16519 *Piper*
 16520 *Cystopogon*

F among rocks
 V. herb. cor. g. w.
 S. 10-12'
 H. coarse with pet. y.
 H. droop. bran. pet. r.
 H. with juice aut. o.
 V. woody cor. br. r.
 H. very fleshy
 T. 10-15' cor. tube & seg. pale y.
 H. 5-8' coarse cor. tube g. lobes w.
 V. herb.
 H. S. 6-10'
 V. woody sta. n.
 S. 10-15' fr. o.
 F. on tree trunk
 on rocks cal. g. spotted with deep brown,
 pet. w.
 S. 8-15'
 H. 5-10' h.
 V. herb. cal. pale g. y.
 S. 10-12' pet. y. " pale g. out.
 F. among rocks
 H. "
 F. "
 F. "
 V. herb. cor. sty. sty. or. sta. "
 S. 10-15' cor. sty. sty. or. sta. "
 V. woody cor. p.
 on soil along streams
 " "
 F. S.
 S. 12-15'
 H. coarse pet. y. striped with
 3-5' aut. y.
 S. 4-8'
 V. herb. cor. w.

Jan. 5 rocky hillsides vic. of Seratq 16-1800
 wooded hillsides

field
wooded hillsides

deep woods in stream bed.
wooded hillsides

deep r. in foot.

16486
 16487
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 16500
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 16512
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- 16521 *Polygala paniculata*
 16522 *Melastoma*
 16523 *Vernonia*
 16524 *Eupatorium*
 16525 *Baileya*
 16526 *Nebisium*
 16527 *Passiflora cuneata*
 16528 *Baileya*
 16529 *Iponmea*
 16530 *Acalia*
 16531 *Solanum*
 16532 (cusp.)
 16533 *Eupatorium*
 16534 (cusp.)
 16535 *Manettia*
 16536 *Melastoma*
 16537 *Salenosoga*
 16538 *Castilleja*
 16539 *Alansoa*
 16540 *Oxalis* "accedera"
 16541 *Solanum*
 16542 *Cupea*
 16543 *Fuscia cordulata*
 16544 *Niconia*
 16545 *Centropogon rosea*
 16546 (ordid.)
 16547 *Stenophyllus*
 16548 *Carex*
 16549 *Centropogon alba*
 16550 *Eupatorium*
 16551 *Elaphoglossum*
 16552 *Guilax*
 16553 *Vernonia*
 16554 grass
 16555 *Elaphoglossum*

- H. 3-5' cor. w. to pu.
 H. herb. cor. deep. p.
 V. herb. cor. pale pu.
 H. coarse. cor. w.
 T. 10-15' pet. w.
 S. 8-15' cor. y. becoming r.
 V. herb. with age.
 S. 8-10' pet. w.
 V. herb. cor. p.
 T. 10-15' rays p. cor. q. y.
 S. 4-6' cor. w. sty. y.
 S. 5-8' ant. y. cor. y. sta. br.
 rays y.
 S. 6-8' cor. w. lobes t. sty.
 stem 2 diam. at base. li. p.
 H. woody at base rays w. p.
 V. herb. cor. q.
 V. 2-4' cor. q. w.
 H. slender rays w. cor. q. y.
 H. br. q. deep. r. at apex
 cor. o.p. fib. q. ant. y.
 H. succ. pet. y.
 V. herb. cor. w. ~~sty.~~ y.
 H. sub-pros. pet. li. p. q. y. at base
 H. woody cal. r. pet. pu. r.
 V. or small t. sty. t. stig. + fib. r. ant. deep. br. r.
 S. 10-15' cal. q. w. fib. + pet. w.
 V. with cor. tube p. out. p. w. in.
 woody base. lobes p. "gyn." w.
 H. terr. fr. q.
 H. V. woody cor. pure w.
 S. or low t. cor. sty. net. pu. pi
 S. 8-15' pet. q.
 F. V. woody pet. q.
 S. 8-10' bran. elong. sub-scap. pub. w.
 V. cor. w. lobes p.
 H. F.

Jan. 5 open slopes vic of Surata 16-
wooded slopes 1800

open slopes

Jan. 5 thicket

exposed hillside, valley of R. Sur.
alt. 2000-2300 above Surata'

rocky wooded slope

dry hillside

edge of woods

dry rocky hillside

edge of woods

dense forest

- 16556 *Asplenium salicifolium* F.
 16557 *Rhipopteryx attenuata* F.
 16558 *Peperomia*
 16559 *Piper*
 16560 *Pilea serrata*
 16561 *Pilea elongata*
 16562 (orchid.)
 16563 *Asplenium dissectum*
 16564 *Peperomia*
 16565 *Clitellaria hastatum*
 16566 moss
 16567 *Selaginella*
 16568 *Peperomia*
16569 *Polyodium*
 16570 *Cocosepalum*
 16571 *Hydrocotyle*
 16572 *Peperomia*
 16573 *Clitellaria coripatense* N.E.B.
 16574 *Lantana*
 16575 *Piper*
 16576 as hepatic
 16577 moss
 16578 hepatic
 16579 *Sanicula*
 16580 *Peperomia*
 16581 *Cardamine*
 16582 *Polyodium decurrens*
 16583 *Psychotria*
 16584 *Pilea alsinoides*
 16585 *Polygala*
 16586 *Piper*
 16587 *Syngramma*
 16588 *Phyllodendron*
 16589 (rub.)
 16590 *Cocosepalum glabrum*

F.
 F.
 H. succ.
 S. 6-8'
 H. succ. stemy rooting
 at base
 H. succ. becoming
 scand. to 15' long.
 E. H. fr. q.
 F
 H. on trees
 H. ~~on tree~~
 H. terr.
 on decaying wood
 F. terr.
 H. terr.
 F. terr.
 H. lax. cor. w., fr. br. b.
 H. slender.
 H. ~~repent.~~
 H. on trees
 H. at base of
 trees
 S. slender.
 F. 8-12'
 on soil
 on soil
 on wood
 H. fr. q.
 H. succ.
 H. terr.
 H. sub-succ. pet. w.
 F.
 T. 15-20'
 H. succ. repent at base
 H. erect slender pet. rich, per. keel p. w.
 T. 8-12'
 F. fr. 5' incl. stipe (1½')
 F. caudex 6" 7"
 H. spathe q. at base, cream dist.
 H. terr. 10-12' cor. w.
 S. rather cor. w.
 H. succ. 2-4' fr. dark blue

Jan. 5 dense forest valley of R.
Surata

20000
2300

१०८३१
१०८३२
१०८३३
१०८३४
१०८३५
१०८३६
१०८३७
१०८३८
१०८३९
१०८४०

det. T. Croat 1990

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- 16591 *Meibomia*
 16592 *Piper*
 16593 *Eupatorium*
 16594 *Ochnopteris*
 16595 *Calceolaria*
 16596 *Saurauja*
 16597 (~~nat.~~) *Sipenna*
 16598 *Baccharis*
 16599 *Baccharis*
 16600 (leg.)
 16601 *Xanthoxylum*
 16602 *Rhagonia* ??
 16603 *Sphacelae*
 16604 *Fuscia*
 16605 *Crotalaria*
 16606 *Glossyumbellifera*
 16607 *Passiflora mollis*
 16608 *Baccharis*
 16609 *Venmania*
 16610 *Centropogon*
 16611 (~~nat.~~) *Sipenna*
 16612 *Rubus*
 16613 *Erythrodies*
 16614 *Solanum*
 16615 *Peperomia*
 16616 *Peperomia*
 16617 *Psychotria*
 16618 *Rubus*
 16619 *Salvia* "mastranso"
 16620 *Protea* (Acp)
 16621 *Zizibodia*
 16622 *Erythrina*
 16623 *Cordia caracasana*
 16624 *Erigeron*
 16625 *Mourning*

S 8-10' with elong. stems, pub. pale green
T 20-25' slender bran.
H woody at base cor. w. prox.
F 3-3½' stipe ½'
H in marshy soil cor. w.
T 40-50' pet. w.
S 3-4' pet. w. ant. Y pet. g. w.
S 12-15' with elong. bran.
S 8-13' inflo. w.
T with elong. pet. w. stan. strob.
T subsc. bran. with r. pu. at center.
T 20-30' pet. g. w.
T 20-30' with erect stems cor. w.
V woody cal. + cor. br. r.
H 3-4' woody at base pet. y. stan. faintly lined prox.
V herb. fr. g.
V herb.
S 10-12' with elong. bran. cor. w. stig. p.
S 8-10' bran. elong. lobes p.
V woody cor. rich p. + lobes.
S 8-12' cor. y. g. fr. r.
V woody pet. w.
H terr. per. w. throughout
S 4-8' cal. lobes p. out, w. in.
H on trees
H " pet. w.
V woody pet. w.
H ^{and to} _{in animals} cor. deep b.
S cor. w.
S cor. n. prox, p. dist.
T 15-20' calyx & Pet. red, pet. pend dist
S 5-7' calyx y-gr.
H ar. y. gr.
S slender Pet. deep blue

Jan 5 dense forest, valley of Surata
 2000-2300

edge of woods

3

W506

2

1600-1800 m.
 Valley of Surata, above Surata
 2000-2400 m. X-2, 3,

*

Jan. 6 dry hillside, vicinity of Surata
 rocky bank
 dry hillside

16626	Coupea	
16627	Escallonia floribunda	
16628	Solaceae Viburnum	
16629	Columnnea	
16630	Columnnea	
16631	Rub.	
16632	Asplenium	
16633	Corallinaeae	
16634	Narcissaria	
16635	Erythrodontes	
16636	Polyodium	
16637	Peperomia	
16638	Trichomanes	
16639	Asplenium attenuata	
16640	Carlobovica	
16641	Uncinia	
16642	Peperomia	
16643	Resine	
16644	Orchid	
16645	Orchid	
16646	Orchid	
16647	Polyodium	
16648	Stellorrhynchus	
16649	Rub.	
16650	Braclistus	
16651	Piper	
16652	Asplenium	
16653	Polyodium	
16654	Erythrodontes	
16655	Peperomia	
16656	Peperomia	
16657	Eupatorium	
16658	Trichomanes	
16659	Alsophila	
16660	Piper piperinoides	

much-branched
 S. 7-10'
 10'-15'
 Small tree
 T 15-20'
 H terrestrial
 H terrestrial
 H 1-2'
 H
 H succ., up to 5'
 V woody, young lvs.
 lvs. decurrent,
 erect, stem
 H succ.
 H ter.
 H succ.
 H on tree
 H on tree
 H on tree
 H ter.
 H
 H on tree
 S 4'
 H on base of tree
 H Epip.
 H Epip.
 H ter.
 H ter.
 H ter.
 S 5' long
 S 8-12'
 S 6-8'
 H ter. or on trees
 H on trees
 H ter.
 H base of tree
 H succ.
 H succ. on trees
 S 4-6' stell.
 H on trees
 H below 2'
 fr. - 6', ripe 3'
 Cane bed and ground
 H succ.
 H 1-3' branches up to 6' long

Jan. 6 edge of woods, Valley of Sumatá River, above. 2000-
 Sumatá
 2400 m.
 dense forest

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- 16696 Baccharis
 16697 Cassia
 16698 Senecio
 16699 Achyrolcline
 16700 Nephrolepis
 16701 Melastoma
 16702 Begonia pileafolia
 16703 Cyathopteris
 16704 Hibiscus
 16705 Eupatorium
 16706 Engeira
 16707 Nicandra
 16708 Eleocharis
 16709 Juncus
 16710 Hydrocotyle
16711 Ticker
 16712 Kubef. "perijil"
 16713 Satereja "majorana"
 16714 Rosmarinus "romero"
 16715 Geranium "geranio"
 16716 Geranium "aroma"
 16717 Eupatorium "almoradiz"
 16718 Viola "violetta"
 16719 Dioscorea
 16720 Piper
 16721 Peperomia glaucina
 16722 Piper
 16723 Eupatorium
 16724 Jussiaea
 16725 Piper
 16726 Piper
 16727 Neurania
 16728 Peperomia macrocarpus
16729 Neconia
 16730 Prescottia
- S 8-15' sticky
 S 10-12'; stems compact
 S 3-5 ft.
 H 2-4', woody at base
 H
 S 10-15'
 S with spreading branches; 6-9' high
 H
 S 7-9'
 S 7-12'
 T 15-25'
 H weak
 H
 H 3-4'
 H repeat
- Heads wh.; Pet. y.
 Cor. & style light y
 Heads y-g.
 Pet. pink, antr. y.
 Pet. wh.; st. antr. y.
 Pet. pinkish red
 Cor. gr. wh., lobes & style pink
 Pet. & stam. wh.
 Cor. y.
- H used in soup
 H woody, used for higdigation, Cor. wh.
 S 4-6'; used rheumatism
 H
 S 6-8' to 10' sick animals
 H
 V woody climbing to 20' 30'
 S or low tree
 S 10-12'
 V woody; stem slender if very glaucous
 S 5-15'
 S with elongate branches, perhaps almost tree-like
 V woody
 S 1-2 ft. long
 S " "
 V woody
 V woody
 S 8-12'
 H ter.
- Cor. & style gr. wh., antr. gr.
 Fr. black
 Pet. pi.-wh., fil. bright y
 Sep. wh.? walled

June 6 clearing
 Valley of Surata River, above Surata
 clearing
 edge of forest

among rocks, edge of forest
 edge of forest

marsh

mossy banks
 rocky banks
 7 Vicinity of Surata } coll. by Eloy Amaya
 growing on old glacier bed

6 edge of forest
 dense forest

mossy banks

2000
-2400 m.

4
1

3

- 16731 *Equisetum* H Jan. 6 Wet field, Valley of Durata River, above Durata
 16732 *Elaphoglossum* H 2000-2400 m.
 16733 *Elaphoglossum* H
 16734 *Histerophorus* H
 16735 *Hymenophyllum* H ter. Stipe 3', fr. 3'
 16736 Grass H dense forest
 16737 Orchid H dry banks
 16738 *Oenothera* H
 16739 *Polygonum* S 8-10' Pet. red br.-red edge of forest
 16740 *Justicia* H Cor. gr.-wh., lobes green dense forest
 16741 *Piper* S with prostrate Cor. rich pink
 16742 *Centropogon* S branches, 2-3' long Cor. rich pink, paler within
 16743 *Viburnum* T 8-15' Cor. wh.
 16744 *Quercus* T 40-50' Sep. green edge of forest
 16745 *Weinmannia* T 15-25' Pet. & fil. wh., anthers light green forest
 16746 lichen " edge of forest
 16747 moss. " dry banks
 16748 *Polytrichum* " damp soil
 16749 moss " dry banks
 16750 *Juniperus* T 30-40' " "
 16751 *Cladodonthus* H Epip. in park (cult.) Durata' 1740 m.
 16752 *Epidendrum* H Epip. 7 woods along stream. 1700 m.
 16753 *Anthurium* H scandent on trees, base; column y dist.
 16754 *Gomphrena* H blue
 16755 *Lonicera* H fine white threads
 16756 *Verbena* H 5 sept + lip wh., deep purpl. spadix green
 16757 *Sterculia* " malva" H prostrate Heads gr.-wh.
 16758 *Boussingaultia* H vine Cor. wh., turning y when
 16759 *Duranta* S with elongate Cor. pinkish-bl.
 16760 *Delonixregia* H ter. 4-8' Pet. rich pi., darker prox.
 16761 *Begonia* S drooping br. Per. wh., becoming whitish.
 16762 *Chrysanthemum* H 1-4' Coarse at tips of lobes purple thicket, between Durata & California
 16763 *Castilleja* H 1-2' Cor. gr. pi., pale pi. ^{old age} purpl.
 16764 *Hibiscus* S 6-15' 5 sep. deep pi., lip light pi. nearly wh. at center and dist. open hillside, bet. Cal. & La Baja 2000-
 16765 *Succowia* S 2-4' Sep. light pi., fil. & anthers y Style gr., stigma y ⁺⁶⁰⁰
 Fr. dried red of cor. y, red pi.
 brown-red, light pi. lobes

16766	Vaccinium	S 4-6'	
16767	Vaccinium	S 1-3'	
16768	Proteaceae	S 8-12'	
16769	Melastomaceae	H woody	
16770	Befaria glauca	S ± 10 ft.	
16771	Eschallonia floribunda	T small, 10-15'	
16772	Salvia	H coarse, 4-6'	
16773	Cestrum	T 15-25'	
16774	Stipa	H	
16775	Piper	S 4-6'	
16776	Fuchsia	S 10-12'	
16777	Gilia	S 5-10'	
16778	Rubus	V woody	
16779	Centropogon	V woody	
16780	Piper	S 6-8'	
16781	Epidendrum album	H ter	
16782	Acalypha	S 10-12'	
16783	Epidendrum roseum	H ter	
16784	Coriaria	T 8-12'	
16785	Epidendrum	H ter.	
16786	Polygala	H pubescent, 2-3'	
16787	Passiflora quadrangularis	H twining vine	
16788	Mimulus	H	
16789	Croton	S 3-5'	
16790	Phytalis	H coarse 3-5'	
16791	Mentha	V herbaceous	
16792	Phaseolus	V herb.	
16793	Piper	S 6 ft!	
16794	Lasiacis	V much branched	
16795	Alliaria violacea	H coarse, 5-4'	
16796	Nuronia	H up to 3'	
16797	Jussiaea	H 3-10' pubescent pet. & base yellow	
16798	Acalypha	T 15-25'	
16799	"milio"	H 5' high or more los habit like corn	
16800	Orencia	H stiff	

Jan. 8 open hillside Between California & La Baja

2000-
2600 m.

thickets Vic. Sonata'

1700
-1800 m.

Calyx gr., cor. light pi. lobes ^{yellow}
" light gr. cor. wh. ^{yellow}
Calyx & anth. gr.
Pet. gr. - y. st. & anth. rich y
Cor. rich pi., st. wh., anth. gr.
Pet. o. fil. wh., anth. olive-gr.
Calyx cor. red
Cor. tube wh., lobes wh. mag.
gr. cister

Young spikes gr. - wh.

Calyx pet. bright red, pi.
Cal. dark gr., lobes lighter
Pet. light pi. Sep. wh.
Tuber rich pi., nearly wh. with
Spikes nearly wh.

5 seps. light pi. out, wh. in,
Styles deep pinkish-red

5 seps. rich pi., lip light pi., col.
Anth. y. - g. Sep. deep pinkish-red

5 seps. pi. out, wh. - y. in.
Pet. deep pink, fr. gr.

See notes

Cor. bright y

Sep. light gr. pet. fil. & anthers wh.

Cor. whit pink, base, wh. mid. lobes pink.

Cor. light pi.

See Notes

Pet. bright orange, becoming brown

dep. red-pink; paler pink.

Pet. deep purple

Br. deep, pi. red, Cor. lighter

5 gr.; style, pi. red.

fr. green; used as popcorn
but smelly

See notes

slightly lighter, open hillsides, bet. California & La Baja
Cor. tube deep red, pi. prox., dist. & lobes green, fil. wh. paler dist.

margined, st. wh. anthers gr.

tube brown, col. br. - purple, lip wh., crown y. / rocky hillsides
open hillsides

lip-purple, prox. gr. - y. dist., crown y. / rocky hillsides

purple open hillsides

col. purple - br., lips y.

thickets

marshy place, bet. Sonata & California

open hillsides

in pink, striped base, wh. mid., lobes pink.

thickets

1700-
2000 m.

2000-
2500 m.

Sonata, sparingly cult.; fern "Tierra Caliente"
10 woods along stream, Sonata

1700 m.

- 16801 *Chenopodium* "paico"
 16802 *Plantago* ~~elatoides~~ "plantain"
 16803 *Tafeinidium*
 16804 *Diplazium*
 16805 *Begonia*
 16806 *Hederaanthia*
 16807 *Orcytanthus*
 16808 *Douglasia*
 16809 *Asplenium*
 16810 Moss
 16811 Rub.
 16812 *Eugenia jambos*
 16813 *Zanthoxylum*
 16814 *Solanum*?
 16815 *Piperomia* "anthurionides"
 16816 *Dicliptera*
 16817 *Polyodium*
 16818 Moss
 16819 Moss
 16820 *Sambucus* "saico"
 16821 Scroph.
 16822 *Caesalpinia*
 16823 *Polygonia*
 16824 *Eupatorium*
 16825 *Cestrum*
 16826 *Adevaria*
 16827 *Phaseolus*
 16828 *Cassia*
 16829 *Cordia floribunda*
 16830 *Ridens*
 16831 *Niraea*
 16832 *Mimosa*
 16833 *Salix* (not *S. leumboldiana*)
 16834 *Passiflora suberosa*
 16835 Grass
- H 2-3' Plant y-g.
 H medicinal for inflammation
 H epip.
 H epip.
 H epip. sp. wh. & Pet. light pi.
 H ter. Per. light pi.
 S epip. spikes gr.
 H ter. & epip.
 H
 On partly submerged rocks
 V herb tube gr. lobes wh. hairs wh.
 T 20-30' Pet. orange gr.-wh.
 Stems t. 10-12' Pet. wh. many, gr. center
 V herb fl. buds gr.
 H evergreen tree spikes green
 H subcanad Calyx gr. pub, pet. dist. obt., cor. pinkish-red
 H ter. moist banks
 On tree
 On moist soil
 T 8-10' used for calcaro
 V herb Cor. tube wh. pubes along lower side, otherwise purple
 S small tree, in dense clumps, slender
 H woody below
 S 9-12' pi.-tinged
 S elong. br.
 S 4-8' Cor. gr.-y.
 V herb Pet. wh.
 See notes
 T 12-20' Pet. bright y
 S 5-8' Cor. gr.-wh.
 H Rasp. col., Cor. gr.-y.
 V herb Pet. y
 S or sm. T 10-15' Stam. gr.-wh.? (walled)
 T 50-60' 2-2.5 diam. Petals gr.
 V herb. tube purple at base; ^{refl. cor.} grass gr.
 H 8-12' buds drooping over road.

Jan. 10 field Surata

woods along stream

1700 m.

~~other~~
moss y-g thickets along stream
calyx tube pi. woods along stream
pet. orange gr.

open hillside
olive purple
Jan. 11 open hillside, perhaps escape
bet. Surata & California

1800 m.
1740
- 2000 m.

perhaps introduced

- 16871 *Alouesa*
 16872 *Polygonum*
 16873 *Oenothera*
 16874 *Salvia*
 16875 *Nicoria*
 16876 *Aristida*
 16877 *Euphorbia salviaefolia*
 16878 *Pityrogramma tatarica*
 16879 *Solanum sinuatum*
 16880 *Asplenium*
 16881 *Eriochlaena*
 16882 *Asplenium*
 16883 *Eupatorium*
 16884 *Nicoria*
 16885 *Lippia*
 16886 *Cassia*
 16887 *Bamstera*
 16888 *Mimosa*
 16889 *Passiflora bracteosa*
 16890 *Hibiscus*
 16891 *Solanum tenipes*
 16892 *Palicourea*
 16893 *Passiflora*
 16894 *Centropogon*
 16895 *Dichromena*
 16896 *Bidens* "careton"
 16897 *Liabum*
 16898 *Solanum velutinum*
 16899 *Sphacelae*
 16900 *Solanum hirsutum*
 16901 *Nicoria*
 16902 *Polyodium pinnula*
 16903 *Polyodium* "canaguada"
 16904 *Hypencium*
 16905 *Eupatorium*

H 1-2.5'
H prostrate branches
H
H ± 2'
S 2-4'
H
S 3-4'
H
H 1.5-2'
H
H
H 1.5-2.5' ^{bright, twigs}
T 10-12'
T 6-12'
T 8-10'
S 6-10'
S ^{slightly elongate} _{woody}
V ^{up to 12'} _{drooping} branches
V ^{woody}
S 2-4'
V
V ^{woody}
H ^{coarse, branches}
H ^{prostrate}
S 6-10'
S
S 6-10'
H prostrate branches
S 4-6'
H
H ^{epiphyte}
S 2-8'
S 4-6'

Cor. or-red
 Sep. gr. prox. wh. dist.
 Pet. y., or-tinged at apex
 Cor. bright bl., antr. lyis gr.
 Calyx light gr., pet. & fls. w. with. light gr.
 Infl. pi.-red
 Sep & pet. pi.-red, pale may
 Cor. ~~pi.~~ ^{pi.-wh.}, striped dark
 broads lustrous above.
 Cor. gr., lobe & style bright pi.
 Pet., fls & styl. wh.
 Cor. wh., tube gr. whitish
 Pet. bright y
 Pet.
 Pet. light pi., antr. w.
 See note
 Pet red; antr. gr.
 Cor. wh., fls. gr., pup. streaked
 Cor. gr.-wh.
 Sterile
 Cor. red intense, light pi. in
 Br & wh. prox. gr. dist.
 Achene purple.
 Rep. bright y; fls. dark
 Cor. ^{to} ^{wh. -blue -tinged} out
 Cor. wh.; antr. y.
 Cor. wh.
 Cor. wh., midrib purp.
 Calyx light gr.; pet. w.
 Pet. y; antr. 5 or more
 Cor., styles, stem. few wh.

Jan. 12 open hillside, above California
 wooded stream
 open hillside

pi, antr. bright y

antr. gr.; pi. purple

edge of woods

open woods
edge of woods

thickets

both sides, antr. y
antr. gr.-pi.; open woods

edge of woods

2400-
2800 m.

1

2

2800-
3000 m.

2

1

1

1

16891

3

4

5

6

7

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16906	<i>Succow.</i>	S 6-8'	Heads y
16907	<i>Vaccinium</i>	S 4-6'	Buds wh., fl. Cor. pi.
16908	<i>Meriania</i>	S 4-10'	Pet. mag. pi., fls. reddish
16909	<i>Psychotria</i>	S 6-8'	Ripe fr. black
16910	<i>Aechtophyllum</i>	S low, emarginata branches	Cor. wh.
16911	<i>Cyathea</i>	Caudex 2' high, 8" diam, semievergreen	
16912	<i>Podocarpus</i> <i>Passiflora</i>	H	Per. deep violet, fls. v. antral
16913	<i>Oxalis</i> "accedera"	H succ.	Pet. gr.
16914	<i>Elephidium</i>	H ter.	
16915	<i>Crassula</i>	T 10-15'	Fls. white gr. wh.
16916	<i>Viburnum tenuifolium</i>	On banks	Buds green, fls. wh.
16917	<i>Polytrichum</i>	dry branches	
16918	Lichen	Damp tree trunks	
16919	Hep.	On trees	
16920	Moss	on rocks	
16921	Lichen		
16922	Lichen		
16923	Lichen		
16924	Moss	On banks	
16925	Moss	rocks	
16926	Hep.??	On banks	
16927	Moss	On dry banks	
16928	<i>Guttipogon</i>	On rocky banks	
16929	<i>Eupatorium</i>	V woody	Cor. red, opt, pale pi. in
16930	<i>Psychotria</i>	S 4-8'	Cor. gr.-w., lobes stiff, rich pi
16931	<i>Viburnum</i>	S 2-4'	Leaff. deep greenish - y
16932	<i>Hydrocotyle</i>	T slender, 10-12'	Fr. gr., not ripe?
16933	<i>Lauraria</i>	H rep.	Infl. gr.
16934	<i>Solanum</i> "árbol de coca"	T 12-15'	Pet. wh., antral, y
16935	<i>Pomarea</i>	S 10-12'	Cor. wh., green interspersed, antral, y
16936	<i>Paspalum</i>	V woody	See notes
16937	<i>Asplenium</i>	H	
16938	<i>Polyphodium</i>	H epiphyt?	
16939	<i>Vitis</i>	V herb.	
16940	<i>Agrostis</i>	Slender grass	Pet. y-gr.

Jan. 12 edge of woods, above California

~~open wood~~

~~Open~~ ~~closed~~ unread

~~Aug 1st 1900~~

edge of woods

open woods

edge of woods

open woods, (cult.)

open woods

2800
- 3000 m.

1

2402-
2800m

3000 m

1

2

- 16941 Comp.
 16942 Lycopodium
 16943 Davilla
 16944 Ectoglossum
 16945 Centropogon
 16946 Castilleja
 16947 Solanum
 16948 Solanum
 16949 Solanum "turno"
 16950 Moss
 16951 Parietaria
 16952 Cestrum "minigua"
 16953 Piper
 16954 Eriocleena
 16955 Verbenaceae
 16956 Galium
 16957 Solanum
 16958 Scroph.
 16959 ? "tampaco"
 16960 Rubus
 16961 Eupatorium
 16962 Rust on 16961
 16963 Rubus glaucus
 16964 Polypodium
 16965 Asplenium
 16966 Stipa
 16967 Valcoelaria
 16968 Carex
 16969 Paspalum
 16970 Solanum
 16971 Salvia
 16972 Comp.
 16973 Salvia
 16974 Iresine
 16975 Rhabdonia
- S 10-12'
 H reagent
 T 8-12'
 H ter.
 S low, branched
 S scandent
 H 1.5-2'
 S 2-4'
 H 3-4'
 S 4-6'
 dry banks
 H
 S 10-15'
 S 12-20'
 H
 T 15-20'
 H matted
 H 1-1.5', curly at base
 H 6-15 inches
 T 12-15'
 S 2-4'
 S 2-4'
 S 5-8'
 H
 H
 H + succulent
 H
 H
 H woody H 2-3'
 V woody
 H
 S 8-12' + viscose
 V herb
 H succ. eff. repeat
- Pappus gr. wh.
 Spikes wh.
 Fr. reddish - br.
 Cor. red out, pi. - wh in.
 Br. - gr. prov., y, dist.
 Cor. gr. wh., teeth y
 Cor. pale br., purple out at middle
 Cor. light blue,
 teeth y.
- Jan. '12 open hillsides above California 3000 m.
 lobes red
 cor? bright red.
 at middle
 teeth y.
- Per. o br. gr.
 Cor. or.
 Spikes green
- edge of woods
 open woods
- edge of woods
- Cor. gr. - wh.
 Fr. gr.
 Cor. wh. mang., purp. cent. teeth y
 Cor. wh., ~~long~~ long at throat whitish, edge of woods
 Pet. pi. - wh., anthers reddish
 Pet. light pi.
 Cor. o style pure wh.
- Pet. light pi. to wh.
- Cor. y.
- Cor. wh., whitish pi., anthers y
 See notes
 Rayo pi. wh., cor. gr.
 See notes
 infl. gr. - wh.
- edge of stream
 dry bank
- open woods
 open woods
 edge of woods
- 3000 -
2500 m.

16976	Marchantia	On wet rocks		above California	3000- 2000m.	AE31
16977	Marchantia	" "				EE31
16978	Nep.	" "				SE31
16979	Lichen	Pl. bright orange		rocky banks		CE31
16980	Lichen	H ter.				NE31
16981	Schizoglossia ? "flor de lata"	H ter. 8-20'	See notes		2500- 2300m.	18231
16982	Lippia	T 10-15'	Cor. wh.			SE31
16983	Solanum	S 4-5'	Cor. wh. antri. y			1
16984	Aethionium	N ter	Spadix dark gr., spathe light gr.			18231
16985	Polypodium	H ter				SE31
16986	Polystichum	H ter				18231
16987	Nicoria	S 4-6'	Pet. light pi., fil. reddish pi., anthers yg., red dorsally			18231
16988	gross	H	achenes light gr.			1
16989	Pilea alcoquoides	H weak, woody				18231
16990	Pilea daevedora	H below				18231
16991	Polyphyllum	H stem red, succ.				18231
16992	Aethionium	H ter.				18231
16993	Centropogon	H ter?	Pet. ofed. purplish, spathe gr. margin, br. center out, pi. in., young spad. deep purp			18231
16994	Blechnum	V woody below	Cor. rich pi. out, pi. in			18231
16995	Centropogon	H				18231
16996	Gynothecium	V woody	Cor. light red, petal pink, lobes darker (out); pi. in.			18231
	(Tolmiea paniculata (Hedw.) Greene)	Caudex-er.	8-10"; fr. 6-8"; stipe ± 1"			18231
16997	Marchantia	wet rocks				18231
16998	Alternanthera	H br. up to 6' long	Heads rich purple	open biotopes	California	2000m.
16999	Lichen	subcaudent	stipe 1-1.5'; prostrate 4-6'	13 woods	near California	1900- 2000m.
17000	Dicksonia	Caudex decumbent or subterranean,				
17001	Peperomia	H epip.				
17002	Rhododendron	S epip.	Spike yellowish			
17003	Cestrum	S 6-8'	Cor. gr.-y.			
17004	Richardia	V herb	Cor. purple spots at base, light gr.			
17005	Coreopsis	S low	Leaves bright y; cor. gr., lobes or			
17006	Borreria	H br. prostrate	Cor. wh., lobes pointed			
17007	Browallia	H	Tube pi. out, lobes bright bl.			
17008	Mormona	H 3-5'	white otherwise			
17009	Adiantum	H ter.	Pet. rich blue			
17010	Asplenium	H				

- 17011 *Solanum* V herb.
 17012 *Selaginella* H
 17013 *Lasiacis* V herb.
 17014 *Pilea* sp. nov. H succ.
 17015 *Begonia* H
 17016 *Peperomia* H Epip.
 17017 *Pheuax hirtus* + woody br. 4-6'
 17018 *Psopalmum* H
 17019 *Asplenium* H
 17020 *Pteris* H
 17021 *Aster* H Ray white, cor. deeply
 17022 grass H elong. branches
 17023 *Polygonum* H repeat below Sep. wh.
 17024 *Pasit*(?) on 17023 H succ. weak
 17025 *Pilea* T 15-25'
 17026 *Polygonia* ?? Bracts (only) greenish wh.
 17027 *Nasturtium* "berro"
 Pet. light pink wh.
 17028 *Pityrogramma tectoria* H
 17029 *Tournefortia* S 5-12'
 17030 *Cratior* "mosquero" Cor. gr. wh. with stiff
 S 2-5' Pet. light gr., stem. wh.
 17031 *Justicia* H 2-3'
 17032 *Cystopteris* H
 17033 *Mycica* S 8-15'
 17034 *Melast.* H
 17035 *Eleocharis* H repeat at base
 17036 *Marchantia* on wet rocks
 17037 Moss on wet logs
 17038 *Cotternium* H
 17039 *Mimulus* H 3-4'
 17040 Palm Trunk 1/2 in. "P. 6-10'
 17041 *Commelinaceae* H fr. semiprot.
 17042 *Justicia* H 2-2.5'
 17043 *Glypticium* H
 17044 *Acalypha* S 6-10'
 17045 *Epidendrum* H 6-8'
- Cor. wh., antr. y. Jan. 13 Woods near California
 1900-2000m.
- edge of stream
- 2000-2350m.

- 17046 *Passiflora platycaula* V herb. twining 2000
 17047 *Gronovia* V herb -2000 m.
 17048 *Habenaria* H 1
 17049 *Piper* S or low shrub 8-12' Cor. wh. pink, pi. dist. 2 in +
 17050 *Rust* Pls. as before Jan 13 woods
 17051 *Autopogon* V ± woody Cor. red pi. out; nearly wh. in
 17052 *Eupatorium* H 4-6' (?) br. gr. ~~dist.~~ pink, wh. dist.
 17053 *Mesuri paniculata* T 12-20' cor. pi. tinged; styles gr.
 17054 *Echites* V woody Heads gray - o
 17055 *Viburnum* S 8-12' Cor. y
 17056 *Clethra?* (*Edmundaia?*) T 12-20' slender Cor. (wh.) wh.
 17057 *Piper* S 3-4' 2
 17058 *Habenaria* H
 17059 *Viburnum* T 10-12' ^{toothed} 3
 17060 *Castilleja* Comp. # S 8-12' stem slender sepalis dist.
 17061 *Neckordia* V herb 3 sep. pi. red out,
 17062 *Stenorrhynchus* H succ. 3 sep. pi. red out,
 17063 *Anethemum* H ter. pale in; lip wh.
 17064 *Anethemum* H ter. 3
 17065 *Anthurium* H ter or epiph. See notes
 17066 *Commebiac.* Spad. pink; spath gr. 1
 17067 *Oenothera* H succ. 3-4' See notes
 17068 *Tradescantia* H ter? 2
 17069 *Hibiscus* Moss on dec. logs H reddish-pi.
 17070 Moss " "
 17071 Moss " "
 17072 *Marchantia* " wet rocks 2400
 17073 *Drymaria* H weak, ~~scarp~~ prot. -2000 m.
 17074 Rub. S 8-12' Pet. gr. wh.
 17075 *Asplenium* H
 17076 orchid H epiph.
 17077 orchid H ter.
 17078 *Peperomia* H epiph.
 17079 *Columnnea* H ter. Stem + succ. Cor. gr. wh. in out, out end with red hairs 2
 17080 ? S Cor. wh., gr.-tinged
- woods
- near California

17081	Anthurium	H epip?
17082	Malaxis	H epip.
17083	Viburnum	S 8-12'
17084	Polystichum	H ter.
17085	Durante	S 12-20' slender
17086	Clavija	T 8-10' trunk erect, 1" diam. frs. in crown at summit
17087	'Myrsinaceae?	S slender T 15-20' Cor. light pi.
17088	Asplenium	H epip.
17089	Tapeinidium	H epip.
17090	Pilea parietaria	H epip. rooting stem below;
17091	Centropogon	V herb
17092	Rub.	H ± waxy below
17093	Tripacolum	V herb.
17094	Reichenbora	H tall
17095	Heliconia Canna	H
17096	Gleome "láctuca"	S 10-12'
17097	Solanum "cocca"	H 2-4"
17098	Gesneria?	H
17099	Jussiaea Spigelia	H succ. ter?
17100	Peperomia	?
17101	Eupatorium	S 5-8'
17102	Iordanie	H 1-2.5'
17103	Peperomia	H
17104	Rhytidorea	Sup. lvs. rich pi. at base gr. else, styles red pi.
17105	Odeaurium	H succ. coarse
17106	Mimulus	Moist banks
17107	Moss	Wet logs
17108	"	" "
17109	"	" "
17110	"	" "
17111	"	" " {nitene}
17112	"	" "
17113	"	" "
17114	Anthurium	H ter.
17115	Tillandsia	H epip.

Jan. 13 Woods near California

24°ov
-2000m.

1
2

stream bed

purple, antr. gray-pi.

Cor. rich pi. out, in

fr. scarlet

Calyx & gl. open & lobes rep.

pi. red pale; pet. & fil. deep

purple, antr. gray-pi.

Bracts pale

deg. or. pale prox.

base

Sep. purple pale, gr. abov, fil. red-purp.

Cor. wh, gr. tips out, antr. y.

fr. wh.

Cor. rich pi.

Cor. gr.-wh., lobes deep pi.,

styles light pi.

Pet. wh., fr. gr.

Sup. lvs. rich pi. at base

gr. else, styles red pi.

Cor. gr., lobes pi. - tan

Anthurium coripetense N. 123n. det. D. Crout 1950

17116	Presice	V herb.	Youngleaves gray wh.	Jan. 13 wood	near California	2000m
17117	Piscum?	H 1-1.5'	St. wh. purpl streaked	Wing wh. may. black addee		2000
17118	Melastom.	woody	Pets. cauth. brighty	14 open banks	Bet. California & La Baja	-2600m.
17119	Carex	H				
17120	Euphrb.?					
17121	Eupatorium	F 12-20 S	Cor. gr.-wh., lobes o.	Thickets		
17122	Phytolacea	H 2-3'	Sep. o styles rich pi.	style deep pi. open banks		
17123	Nigra	H coarse aue	Dr. gr.			
17124	Aldophila	S 8-12'	Caudex 1' semidecumbt.; stipe 2-3'; fr. 6-10'			
17125	Eriolaena	H	Dr. black			
17126	Ganeetheria	S 8-10'				
17127	Piper	S 8-15'	Spikes gr. cap.			
17128	Lycopodium	H trailing over banks	(cor. light gr. lower 1/2, pi. up)			
17129	Eupatorium	S 8-12'	lobes white light pi.			
17130	Eupatorium	S branches, branched				
17131	Coupl.	S 5-7'	Cor. apparently wh, br. with			
17132	Tiliaceae	H	Heads or rays up.			
17133	Verbesina or Coreopsis?	T 12-20'	Pet. gr. y, but young.			
17134	Cuphea	S 8-12'	Rays bright y; cor. g-or			
17135	Cinchona	H	Calyx red-purp; Pet. pi.			
17136	Muehlenbeckia taninifolia	T 20-25'; trunk slender, 1/3" diam	Cor. pointed out, wh. in.			
17137	Castilleja	V herb	Pet. g-g.; pi. y-g.			
17138	Hypericum	woody below	Br. g ^{red} g ^{red} sp. red, rays in light pi., y. gr. ventrally			
17139	grass	H woody.	Pet. y			
17140	Castilleja (= 17137??)	woody below	Colonizing as in 17137			
17141	Eschscholzia floribunda	T 10-20'	Pet. wh.			
17142	Mejbornia	H semi-pustule	Pet. deep blue			
17143	soralea	S 10-15'; much branched below	Pet. bright blue.			
17144	Centropogon	V woody	Cor. red			
17145	Myrsinaceae branch	T 15-20'	Dr. light gr.	Thickets	north of La Baja	2000 -2900m.
17146	Alsophila	Caudex decumb or subtler.; stipe 2', fr. 4-5'				
17147	Rubus	V woody	Pet. wh.			
17148	Passiflora mixta	V+woody	See notes			
17149	Panetaria	H erect	Pet. gr. wh.			
17150	Salvia	H branch at first post. then erect.	Cor. deep blue	shaded bank		

- 17151 Asplenium
 17152 Asplenium
 17153 Peltaria
 17154 Erodium
 17155 Agrostis
 17156 Solanum
 17157 Eupatorium
 17158 Sarache?
 17159 Echinocystis
 17160 Rumex conglomeratus
 17161 Passiflora
 17162 Pteris
 17163 Turnera
 17164 Polypodium incisum
 17165 Polypodium glaucoptilum II n. s.
 17166 Restionaceae
 17167 Piper
 17168 Lindsaea
 17169 Galaxia
 17170 Ophioglossaceae
 17171 Scleria
 17172 Gramineae
 17173 Lobelia
 17174 Hibiscus
 17175 Pellea
 17176 Dryopteris
 17177 Alsophila
 17178 Leium
 17179 Polygala galwades.
 17180 Meastomaceae.
 17181 Cyathia
 17182 Rust
 17183 Coup.
 17184 Eupatorium
 17185 Centropogon

H
 H
 H
 H
 H
 S^{8-12'}
 S^{5-8'}
 H?
 V herb.
 H
 H
 H
 T^{low or s}
 H ter. repeat
 S^{5-6'}
 on earth banks
 sec. herb
 H
 S^{8-10'}
 H
 H
 S^{8-15'}
 H
 H
 H
 H
 S^{8-13'}
 H^{2-3'}
 T^{20-30'}
 notes?
 S^{6-10'}
 purple

Cor. wh., antr. y
 Cor. gr. wh., lobes ostyle
 Cor. wh., pub. cent. in
 Cor. wh.
 Per. gr.
 same as 1711?
 Cor. gr. wh., fl. wh.
 Cor. wh., antr. y
 Cor. wh., lobes ostyle
 Cor. wh., pub. cent. in
 Cor. wh.
 Per. gr.
 same as 1711?

Jan. 14 shaded bank above La Baja

clearing open hillside

shaded bank
open hillside

shaded bank
open hillside

woods

2700
2900m

2

2

1

1

tu

1

- | | | | |
|-------|--------------------------|-------------------------------|--|
| 17186 | <i>Stenorrhynchus</i> | H secter | 3 outspred, 2 in. pi. |
| 17187 | <i>Bomarea</i> | rhiz. | "lip" wh.
See notes |
| 17188 | <i>Pilea laevicodora</i> | H sec | |
| 17189 | <i>Elaphoglossum</i> | H ter. | |
| 17190 | <i>Elaphoglossum</i> | H ter. | |
| 17191 | Solanaceae | S with much
grained branch | Cor. pi.-w, antr. y. |
| 17192 | <i>Solanum</i> | H corody
below | Cor. light bl, .. |
| 17193 | <i>Epidendrum</i> | H | See notes |
| 17194 | <i>Franseria</i> | S 8-12' | Cr. gr.-y. |
| 17195 | <i>Vernonia?</i> (lip) | V woody | Peppery wh. |
| 17196 | <i>Passiflora mollis</i> | V arb. | |
| 17197 | " <i>ligularis</i> | V herb woody | See notes |
| 17198 | moss | on banks | (Bl. b) |
| 17199 | moss | on banks | See notes |
| 17200 | <i>Passiflora rugosa</i> | V woody | |
| 17201 | <i>Oscaphila</i> | Caudex subter - | See notes |
| 17202 | <i>Centropogon</i> | S 2-4' | , stipe 1-2', fr. 2' |
| 17203 | <i>Eupatorium</i> | S 4-6' | Cr. ^{light} red ad, pi. wh. in |
| 17204 | <i>Bidens</i> | H woody below | back, back & style pi. |
| 17205 | <i>Eupatorium</i> | H woody below | Cr. gr., publ. tipped |
| 17206 | <i>Miconia</i> | S rom. tree | Cr. & style wh. |
| 17207 | <i>Tillandsia</i> | Hepip. | Dr. wh. pi. |
| 17208 | <i>Centropogon</i> | V woody | Conf. lvs. gr. dark . |
| 17209 | <i>Psychotria</i> | S 8-10' | red flst, buds orange |
| 17210 | <i>Escarobedia</i> | H 1-3-31 | tube red out, 2-fe in. |
| 17211 | <i>Enocchiana</i> | H | See notes |
| 17212 | Orchid | H | Cr. wh. |
| 17213 | <i>Castilleja</i> | H | inf. wine-color |
| 17214 | <i>Senecio</i> | S 4-8' | See notes |
| 17215 | <i>Gaultheria</i> | S 2-4' | Bracts bright red. ^{green} yellow |
| 17216 | <i>Eupatorium</i> | S 4-5' | Heads gr. |
| 17217 | <i>Befaria</i> | S 1-2' | Calyx gr, bl. tinted; tube |
| 17218 | lichen | S | Cr. pi.-w., lobes & styl. deep |
| 17219 | <i>Trichomanes</i> | On dry twigs | Cr. wh. at base, rich pt. |
| 17220 | <i>Hymenophyllum</i> | Hepip. | |
| | | H Hepip. | |

Jan. 14 Striated Woods above La Baja

rocky bank

clearin

open hillsid

wood

above California on road to Paraua^{Reco} 3000-
3500m.

~~2700~~
~~-2900~~ a. 7

15

open, bivalved

light pi, like deep pi

light fci; anch. light gr. pls. viscous

② ~~woods~~ ^{w. slope} edge of Paranao Rico
Jaramillo

- 17221 *Hymenophyllum*
 17222 *Odontosoria*
 17223 *Columnea*
 17224 *Cestrum*
 17225 *Castilleja*
 17226 *Calceolaria*
 17227 *Arnica*
 17228 *Verbascina*
 17229 *Melastom.*
 17230 *Eupatorium*
 17231 *Eryngium*
 17232 *Fern (like Polystichum)*
 17233 *Cestrum*
 17234 *Alouatta*
 17235 *Passiflora mixta*
 17236 *Duisia*
 17237 *Lupinus*
 17238 *Bernadesia*
 17239 *Alnus*
 17240 *Gaultheria*
 17241 *Pleurothallis*
 17242 *Oreohid*
 17243 *Eupatorium*
 17244 *Verbascina*
 17245 *Echeveria*
 17246 *Digitalis*
 17247 *Stevia*
 17248 *Marrubium*
 17249 *Solanum*
 17250 *Chileanthus*
 17251 *Elaphoglossum*
 17252 *Vicia*
 17253 *Calceolaria*
 17254 *Polylepia*
 17255 *Hypericum*

H Epip.
 Vines
 H ter?
 S low
 H woody below
 S low
 H 2-5' ± coarse
 S 6-10'
 S low
 S 6-10'
 S
 H
 S
 H woody below
 V woody below
 V
 H 2-2.5'
 S 9-12'
 S 20-25'
 S 15' (1)
 H epip.
 H Epip.
 S 2-4'
 S 6-8'
 H aec.
 H
 S 1-2' viscous
 H 4-8' drooping
 S 6-12'
 H
 H ter
 V herb
 S 1.5-4'
 S 3-4' drooping
 S 1-2' br.

parviflora w. sl.
 an. 15 woods. edge of Parauw Reis

³⁶⁰⁰
~~+4000~~ m.

²⁵⁰⁰
~~-3500~~ m.

³¹⁰⁰
~~3250~~ m.

(1) edge of woods, Bet. California & Vetas

(1) 16 open, mostly rocky, hillsides, Vie. Vetas

See notes
 Cor. bright y
 S 1-2' st. ± 50

17256	<i>Agrostis</i>	H	
17257	<i>Erigeron?</i> Senecio?	H	2-3'
17258	<i>Elaphoglossum</i>	H	
17259	<i>Osmunda</i>	H	
17260	<i>Asplenium</i>	H	
17261	Fern (like <i>Polyptilum</i>)	H	
17262	<i>Oxalis</i>	H	matted or resent
17263	<i>Cestrum</i>	S	2-6'
17264	<i>Eupatorium</i>	S	3-6' lvs rather flesh Cor. pink other part wh.
17265	<i>Urtica</i> nsp.	S	2-3' drooping a branched
17266	<i>Malvastrum</i>	H	cespitos; lvs flat on ground
17267	<i>Solanum</i>	S	1-2'
17268	<i>Bereco</i>	S	4-8'
17269	<i>Stevia</i>	Woody	
17270	<i>Centropogon</i>	S	2-4'
17271	<i>Centropogon</i>	S	4-7'
17272	<i>Nicotina</i>	S	4-6'
17273	<i>Pernettya</i>	S	4-8'
17274	<i>Befaria</i>	S	2-3'
17275	<i>Geranium</i>	H	
17276	<i>Muehlenbeckia</i> <i>Polyptilum</i>	V herb	
17277	<i>Polyptilum</i>	H	
17278	<i>Peperomia</i>	H Epip	
17279	<i>Bomarea</i>	V herb	
17280	<i>Hibandia</i>	S	8-12'
17281	<i>Hibandia</i>	S	6-8'
17282	Moss	On banks	
17283	"	" "	
17284	Lichen	" "	
17285	<i>Diphagnum</i>	Moist soil	
17286	<i>Peperomia</i>	H Epip	
17287	<i>Peperomia</i>	H Epip	
17288	<i>Eriochlaena</i>	H	
17289	<i>Elaphoglossum</i>	H	
17290	<i>Lepidium</i>	H	
			head gr. wh may y-g cent.
			u. 16 Open, mostly rocky, hillsides, Vic Vatas
			31° ^{02'} -3250m
			2



